MA 35 D(85)-1

CURRENT INDUSTRIAL REPORTS

Construction Machinery

1985

MA35D(85)-1
Issued August 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

During 1985, the value of shipments of power cranes, draglines, and excavators, as collected on Bureau of the Census annual Form MA35D, totaled $1,390.8 million representing a 6-percent decrease from 1984 shipments of $1,479.9 million. The 1985 figure included excavators, $441.2 million, a decrease of 12 percent from the 1984 figure of $499.6 million; cranes, $294.7 million, a decrease of 6 percent from the 1984 figure of $312.8 million; draglines, $138.7 million, a decrease of 23 percent from the 1984 figure of $180.3 million; and other cranes and parts and attachments, $516.2 million, an increase of 6 percent over the 1984 figure of $487.1 million.

The 1985 value of shipments of the types of construction machinery collected by the Bureau of the Census on quarterly Form MQ35D totaled $5,993.2 million. This included contractors' off-highway wheel tractors, $486.6 million; mixers, pavers, and related equipment, $632.1 million; wheel loaders, $1,143.7 million; scrapers, graders, rollers, off-highway equipment, and mountings for tractors, $2,322.0 million; and other construction machinery, $169.7 million.

A description of the survey methodology and other related information appears on page 24

NEWARK PUBLIC LIBRARY

AUG 25 1986

U. S. GOVT. PUBS.
DEPOSITORY 376

Table 1. VALUE OF SHIPMENTS OF CONSTRUCTION MACHINERY: 1976 TO 1985

(Millions of dollars)

Product code	Product description	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976
35311	Contractors off-highway wheel tractors.....	486.6	421.9	292.4	264.7	489.0	487.9	546.1	546.9	435.8	293.2
35312	Tracklaying tractors.....	628.7	785.4	633.6	777.3	1,569.9	1,306.1	1,322.2	1,376.9	1,136.2	1,025.7
35314	Power cranes, draglines, and shovels.....	1,390.8	1,479.9	1,540.6	1,947.8	2,823.7	2,763.6	2,945.3	2,775.0	2,334.1	[1]2,145.2
35316	Mixers, pavers, and related equipment.....	632.1	485.5	366.5	301.7	436.1	398.4	417.9	355.5	310.8	[1]170.3
35317 pt.	Wheel type tractor shovel loaders.....	1,143.7	1,197.4	964.3	907.0	1,921.1	1,456.3	1,472.1	1,443.9	1,131.2	819.1
35318	Scrapers, graders, compactors, rollers, and off-highway trucks, trailers, and wagons, and equipment for mounting on tractors.....	2,322.0	1,799.4	1,305.4	1,384.7	2,220.0	2,251.7	2,275.8	2,108.0	1,717.6	1,414.5

pt. Part.

[1]Data prior to 1977, exclude various equipment included in this class of products.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Donald Burgess, (301) 763-7492.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

C 3. 158:

Table 2A. QUANTITY AND VALUE OF SHIPMENTS OF POWER CRANES AND SHOVELS AND OTHER SELECTED CONSTRUCTION MACHINERY: 1985

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Number of companies	Total shipments		Export shipments[1]	
			Quantity	Value	Quantity	Value
35314 --	Power cranes, draglines, and shovels (excavators) including surface mining equipment (but not including equipment for mounting on tractors), parts, and attachments	59	(X)	1,390,834	(X)	416,402
	Excavators	(NA)	3,220	441,191	509	124,185
	Cable operated:					
	Crawler mounted:					
	Rated shovel capacity (cu. yd.):					
35314 54	3/4 and under	-	-	-	-	-
35314 55	Over 3/4 up to 1-1/4	-	-	-	-	-
35314 56	Over 1-1/4 up to 2	-	-	-	-	-
35314 57	Over 2 up to 3-1/2	-	-	-	-	-
35314 58	Over 3-1/2 up to 5	-	-	-	-	-
35314 59	Over 5 up to 10	-	-	-	-	-
35314 60	Over 10 up to 15	2	(D)	(D)	(D)	(D)
35314 61	Over 15	3	(D)	(D)	(D)	(D)
35314 53	Truck or wheel (rubber) mounted	-	-	-	-	-
	Hydraulic operated:					
	Crawler mounted:					
	Rated size (lbs.):					
35314 11	Up to and including 40,000	6	1,070	77,199	250	21,558
35314 13	Over 40,000 up to 55,000	8	850	88,124		
35314 15	Over 55,000 up to 70,000	3	64	8,139	(D)	(D)
35314 17	Over 70,000 up to 85,000	6	(D)	(D)	(D)	(D)
35314 19	Over 85,000 up to 100,000	6	120	22,665	16	2,971
35314 20	Over 100,000 up to 130,000	2	(D)	(D)	-	-
35314 22	Over 130,000	4	107	31,857	63	11,137
35314 23	Truck or wheel (rubber) mounted	6	534	60,849		
	Cranes	(NA)	3,801	294,741	428	54,730
	Cable operated:					
	Crawler mounted:					
	Maximum working load (tons):					
35314 66	Up to and including 15	-	-	-	-	-
35314 67	Over 15 up to 30	3	(D)	(D)	-	-
35314 68	Over 30 up to 45	2	33	6,166	7	1,458
35314 69	Over 45 up to 60	3				
35314 70	Over 60 up to 75	1	(D)	(D)	(D)	(D)
35314 71	Over 75 up to 90	1	20	7,190	11	3,756
35314 72	Over 90 up to 120	4				
35314 25	Over 120 up to 150	3	25	22,957	9	7,128
35314 26	Over 150	4				
	Truck or wheel (rubber) mounted:					
	Maximum working load (tons):					
35314 73	Up to and including 30	2	45	7,142	(D)	(D)
35314 74	Over 30 up to 45	2			-	-
35314 75	Over 45 up to 60	2	12	3,646	(D)	(D)
35314 76	Over 60 up to 75	2				
35314 77	Over 75 up to 90	1	12	4,028	(D)	(D)
35314 78	Over 90 up to 120	4				
35314 79	Over 120 up to 150	5	19	9,669	6	3,130
35314 80	Over 150	1			-	-
	Hydraulic operated:					
35314 30	Crawler mounted	1	(D)	(D)	-	-
	Truck mounted (rubber):					
	Maximum working load (tons):					
	Up to and including 20:					
35314 27	Integrated type	7	906	25,043	83	1,988
	Pinned on type:					
35314 28	Telescopic	7	1,094	32,750	(D)	(D)
35314 29	Articulated	2	(D)	(D)	(D)	(D)
35314 32	Over 20 up to 30	5	90	13,622	14	2,033
35314 33	Over 30 up to 55	5	147	29,973	40	6,172
35314 34	Over 55	4				
	Self-propelled (rubber):					
	Maximum working load (tons):					
35314 36	Up to and including 8	7	169	13,051	(D)	(D)
35314 37	Over 8 up to 12-1/2	5	295	14,266	38	2,481
35314 38	Over 12-1/2 to 15	7	175	13,025		
35314 39	Over 15 up to 18	4	89	8,671	66	6,776
35314 40	Over 18 up to 25	7	246	24,125		
35314 41	Over 25	6	265	51,408	(D)	(D)

See footnotes at end of table 2B.

Table 2A. QUANTITY AND VALUE OF SHIPMENTS OF POWER CRANES AND SHOVELS AND OTHER SELECTED CONSTRUCTION MACHINERY: 1985--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Number of companies	Total shipments		Export shipments[1]	
			Quantity	Value	Quantity	Value
35314 --	Power cranes, draglines, and shovels (excavators) including surface mining equipment (but not including equipment for mounting on tractors), parts, and attachments--Continued					
	Walking draglines	(NA)	24	138,729	8	85,684
	Rated bucket capacity (cu. yds.):					
35314 96	Up to and including 40	6	24	138,729	8	85,684
35314 97	Over 40 up to 60	2				
35314 98	Over 60	2				
	Other cranes	(NA)	2,536	118,863	194	47,515
35314 03	Locomotive cranes (except wrecking)	4	62	29,568	118	41,990
35314 05	Full circle revolving with booms (whirleys and hammerheads)	10	924	53,855		
35314 07	All other cranes not elsewhere specified (including locomotive wrecking cranes)	9	1,550	35,440	76	5,525
	Attachments for power cranes, draglines, and excavators (sold separately)	(NA)	4,495	41,183	191	2,537
35314 81	Magnet	-	-	-	-	-
35314 82	Log loader	-	-	-	-	-
35314 83	Shovel	3	2,435	12,088	(D)	(D)
35314 84	Hoe	2			-	-
	Dragline buckets:					
	Rated bucket capacity (cu. yds.):					
35314 87	Up to and including 40	4	208	3,334	(D)	(D)
35314 88	Over 40 up to 60	2			-	-
35314 89	Over 60	3	418	5,758	(D)	(D)
35314 91	Clamshell/grapple	3			(D)	(D)
35314 92	All other attachments	9	1,434	20,003	(D)	(D)
35314 85	Parts for power cranes, draglines, and shovels	35	(X)	356,127	(X)	101,751

See footnotes at end of table 2B.

Table 2B. QUANTITY AND VALUE OF SHIPMENTS OF POWER CRANES AND SHOVELS AND OTHER SELECTED CONSTRUCTION MACHINERY: 1984

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Number of companies	Total shipments		Export shipments[1]	
			Quantity	Value	Quantity	Value
35314 --	Power cranes, draglines, and shovels (excavators) including surface mining equipment (but not including equipment for mounting on tractors), parts, and attachments	66	(X)	r1,479,856	(X)	r379,519
	Excavators	(NA)	3,523	r499,554	402	r78,614
	Cable operated:					
	Crawler mounted:					
	Rated shovel capacity (cu. yd.):					
35314 54	3/4 and under	-	-	-	-	-
35314 55	Over 3/4 up to 1-1/4	-	-	-	-	-
35314 56	Over 1-1/4 up to 2	-	-	-	-	-
35314 57	Over 2 up to 3-1/2	-	-	-	-	-
35314 58	Over 3-1/2 up to 5	-	-	-	-	-
35314 59	Over 5 up to 10	-	-	-	-	-
35314 60	Over 10 up to 15	2	(D)	(D)	(D)	(D)
35314 61	Over 15	2			(D)	(D)
35314 53	Truck or wheel (rubber) mounted	-	-	-	-	-
	Hydraulic operated:					
	Crawler mounted:					
	Rated size (lbs.):					
35314 11	Up to and including 40,000	9	1,350	r111,415	256	24,312
35314 13	Over 40,000 up to 55,000	10	966	r115,836		
35314 15	Over 55,000 up to 70,000	4	96	14,145	(D)	(D)
35314 17	Over 70,000 up to 85,000	8	441	r87,810	(D)	(D)
35314 19	Over 85,000 up to 100,000	7	r121	r24,431	(D)	(D)
35314 20	Over 100,000 up to 130,000	5	(D)	(D)	(D)	(D)
35314 22	Over 130,000	6	r95	r35,995	42	11,613
35314 23	Truck or wheel (rubber) mounted	5	407	52,578		
	Cranes	(NA)	r3,974	312,820	517	75,416
	Cable operated:					
	Crawler mounted:					
	Maximum working load (tons):					
35314 69	Up to and including 15	1	r41	r5,630	-	-
35314 67	Over 15 up to 30	5			(D)	(D)
35314 68	Over 30 up to 45	4	r10	r1,819	-	-
35314 69	Over 45 up to 60	3	r27	r6,111	(D)	(D)
35314 70	Over 60 up to 75	3	r18	r4,329	(D)	(D)
35314 71	Over 75 up to 90	2	r31	r11,105	r7	r2,362
35314 72	Over 90 up to 120	4				
35314 25	Over 120 up to 150	4	r40	r33,664	21	17,365
35314 26	Over 150	3				
	Truck or wheel (rubber) mounted:					
	Maximum working load (tons):					
35314 73	Up to and including 30	2	43	6,575	-	-
35314 74	Over 30 up to 45	3			(D)	(D)
35314 75	Over 45 up to 60	1	r12	3,638	-	-
35314 76	Over 60 up to 75	4			(D)	(D)
35314 77	Over 75 up to 90	2	12	r3,850	r12	r3,850
35314 78	Over 90 up to 120	1				
35314 79	Over 120 up to 150	3	20	12,723	8	4,755
35314 80	Over 150	4				
	Hydraulic operated:					
35314 30	Crawler mounted	1	(D)	(D)	-	-
	Truck mounted (rubber):					
	Maximum working load (tons):					
	Up to and including 20:*					
35314 27	Integrated type*	8	r1,068	r28,605	55	1,460
	Pinned on type:*					
35314 28	Telescopic*	7	800	21,483	(D)	(D)
35314 29	Articulated*	2	(D)	(D)	(D)	(D)
35314 32	Over 20 up to 30	5	r96	r13,420	27	3,609
35314 33	Over 30 up to 55	5	144	27,302	61	8,839
35314 34	Over 55	4				
	Self-propelled (rubber):					
	Maximum working load (tons):					
35314 35	Up to and including 8	8	541	32,027	78	4,419
35314 37	Over 8 up to 12-1/2	5	300	16,730	42	2,818
35314 38	Over 12-1/2 to 15	8	134	10,489		
35314 39	Over 15 up to 18	5	83	7,696	104	10,297
35314 40	Over 18 up to 25	7	200	21,344		
35314 41	Over 25	9	215	39,591	68	12,248

See footnotes at end of table.

Table 2B. QUANTITY AND VALUE OF SHIPMENTS OF POWER CRANES AND SHOVELS AND OTHER SELECTED CONSTRUCTION MACHINERY: 1984--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Number of companies	Total shipments		Export shipments[1]	
			Quantity	Value	Quantity	Value
35314 --	Power cranes, draglines, and shovels (excavators) including surface mining equipment (but not including equipment for mounting on tractors), parts, and attachments--Continued					
	Walking draglines	(NA)	r30	r180,345	r11	r124,410
	Rated bucket capacity (cu. yds.):					
35314 96	Up to and including 40	5				
35314 97	Over 40 up to 60	2	r30	r180,345	r11	r124,410
35314 98	Over 60	3				
	Other cranes	(NA)	2,213	99,658	138	r22,691
35314 03	Locomotive cranes (except wrecking)	5	32	9,605	-	-
35314 05	Full circle revolving with booms (whirleys and hammerheads)	11	766	r51,807	74	r18,568
35314 07	All other cranes not elsewhere specified (including locomotive wrecking cranes)	7	1,415	r38,246	64	4,123
	Attachments for power cranes, draglines, and excavators (sold separately)	(NA)	r3,969	r42,965	r230	4,915
35314 81	Magnet	-	-	-	-	-
35314 82	Log loader	-	-	-	-	-
35314 83	Shovel	3			(D)	(D)
35314 84	Hoe	2	2,041	10,914	(D)	(D)
	Dragline buckets:					
	Rated bucket capacity (cu. yds.):					
35314 87	Up to and including 40	4			(D)	(D)
35314 88	Over 40 up to 60	2	252	r4,863	-	-
35314 89	Over 60	2			-	-
35314 91	Clamshell/grapple	4	r579	r6,783	(D)	(D)
35314 92	All other attachments	8	r1,097	r20,405	145	3,851
35314 85	Parts for power cranes, draglines, and shovels	37	(X)	r344,514	(X)	r73,473

* New or revised classification for 1984. - Represents zero. (D) Data withheld to avoid disclosing figures for individual companies.
(NA) Not available. rRevised by 5 percent or more from previously published figures. (X) Not applicable.

[1]Statistics for export shipments are based on manufacturers' factory shipments for export which may differ from actual export shipments.

Table 3A. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1985

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Total company count	Export company count	Total shipments		Export shipments		First quarter			
								Total shipments		Export shipments	
				Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Total	(NA)	(NA)	(X)	5,993,221	(X)	1,161,331	(X)	1,271,646	(X)	235,697
35311 00	Contractors off-highway wheel tractors	22	10	7,080	486,634	669	62,082	1,760	119,478	170	17,823
	Wheel tractors for use as towing unit by horsepower rating (2- and 4-wheel)	(NA)	(NA)	5,375	370,926	366	35,115	1,120	75,979	99	10,553
	Single axle:										
35311 22	Under 300	8	5	3,393	259,495	(D)	(D)	744	54,071	(D)	(D)
35311 24	300 and over	2	2			(D)	(D)			(D)	(D)
	Two axle:										
35311 31	Under 150	9	4	1,982	111,431	(D)	(D)	376	21,908	(D)	(D)
35311 26	150 to 299	4	3			(D)	(D)			(D)	(D)
35311 28	300 and over	5	1			(D)	(D)			-	-
	Rubber-tired dozers (maximum engine hp)	(NA)	(NA)	1,705	115,708	303	26,967	660	43,499	71	7,270
35311 33	125 to 299	2	1								
35311 35	300 and over	1	1								
35311 37	Wheeled log skidders, self-propelled	5	3								
35316 00	Mixers, pavers, and related equipment	96	33	72,526	632,063	3,520	26,342	18,505	150,832	1,071	6,085
	Concrete mixers:										
35316 12	Portable, 3-1/2 cu. yd. capacity and over (except plaster and mortar) hand or power operated	10	3	10,373	8,703	(D)	(D)	2,642	2,312	(D)	(D)
35316 21	Truck mixer or agitator	8	3	3,437	76,993	(D)	(D)	800	18,131	(D)	(D)
35316 25	Other than truck mixer	6	1	1,863	35,807	(D)	(D)	455	7,461	(D)	(D)
35316 31	Plaster and mortar, all sizes	9	4	11,106	19,248	(D)	(D)	3,178	5,305	(D)	(D)
35316 32	Concrete slipform pavers	4	-	(D)	(D)	-	-	(D)	(D)	-	-
35316 33	Concrete slipform curbers, gutter and sidewalk pavers	7	3	5,849	53,005	272	5,445	1,336	10,963	59	1,478
35316 35	Concrete deck and slab finishers	4	1								
35316 36	Concrete trowels	8	4								
35316 40	Concrete vibrators	14	7	24,885	11,607	2,575	1,291	6,610	3,072	850	422
35316 42	Concrete screeds (hand propelled or winch type)	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35316 37	Concrete batching plants, bin and batch (for concrete aggregate only and bulk cement)	14	2	494	43,818	(D)	(D)	124	11,112	(D)	(D)
	Concrete pumps, mobile:										
	Trailer mounted (cu. yds./hr.):										
35316 17	Under 25	5	1	789	13,268	35	621	201	3,153	7	88
35316 18	25 and over	8	2								
	Truck mounted (including value of booms and trucks) (cu. yds./hr.):										
35316 19	Under 50	1	1	455	45,184	(D)	(D)	82	7,888	(D)	(D)
35316 20	40 to 100	3	1			(D)	(D)			-	-
35316 23	Over 100	5	1			(D)	(D)			-	-
	Bituminous:										
35316 41	Distributors	5	3	692	14,627	(D)	(D)	139	2,986	(D)	(D)
	Pavers, self-propelled (lbs. gross wt.)	(NA)	(NA)	1,127	104,749	(D)	(D)	251	23,439	(D)	(D)
35316 13	Under 8,500	2	-	434	12,746	-	-	92	2,888	-	-
35316 14	8,500 through 19,999	4	1			(D)	(D)			(D)	(D)
35316 15	20,000 through 34,999	5	2	693	93,003	(D)	(D)	159	20,551	(D)	(D)
35316 16	35,000 and over	2	-			-	-			-	-
	Asphalt plants:										
	Central mixing plants (batch type and continuous type) (tph)	(NA)	(NA)	202	73,917	(D)	(D)	52	22,872	(D)	(D)
35316 45	Less than 2,000 (less than 60 tph)	1	1			(D)	(D)			-	-
35316 46	2,000 to 3,500 (60 to 199 tph)	3	1			(D)	(D)			-	-
35316 47	3,501 to 5,500 (120 to 179 tph)	-	-	202	73,917	-	-	52	22,872	-	-
35316 48	5,501 to 7,500 (180 to 239 tph)	1	-			-	-			-	-
35316 49	7,501 and over (240 tph and over)	6	-			(D)	(D)			(D)	(D)
35316 51	Asphalt boxes, not self-propelled	5	-	(D)	(D)	-	-	(D)	(D)	-	-
	Stabilizations mixing equipment:										
35316 54	Central plants	-	-	-	-	-	-	-	-	-	-
35316 55	Mix-in-place	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pavement reclaimers/planers (self-propelled):										
35316 56	0 to 24,999 (machine weight)	2	1	410	59,002	(D)	(D)	91	14,987	(D)	(D)
35316 57	25,000 to 59,999 (machine weight)	4	1			(D)	(D)			(D)	(D)
35316 58	60,000 lbs. and over (machine weight)	4	1			(D)	(D)			-	-
35316 59	Other concrete and bituminous equipment not specified above, including mixers, heating kettles, heaters, circulators, travel mix type and spreader boxes	25	7	4,807	52,812	173	1,770	1,055	11,633	46	468
35317 00	Tractor shovel loaders	(NA)	(NA)	48,268	1,754,132	6,841	342,176	8,882	329,621	1,433	63,047
	4-wheel drive skid steer (hp):										
35317 37	Under 35	10	5	11,113	121,096	2,271	18,533	2,241	23,984	529	3,724
35317 39	35 and over	8	6	6,049	96,744	934	13,286	1,340	21,083	150	2,124
	Wheel type, rear engine mount, integral design	(NA)	(NA)	8,721	925,815	1,639	258,937	1,663	176,380	321	46,797
	4-wheel drive (cu. yd. bucket capacity):										
35317 41	Under 1	7	3	478	11,826	118	4,755	117	2,590	7	130
35317 43	1 and under 1-1/2	6	2	352	15,329			56	1,947	-	-
35317 45	1-1/2 and under 2	6	2	673	30,722	244	15,019	192	9,066	58	3,419
35317 47	2 and under 2-1/2	6	4	1,527	94,727			348	21,561		
35317 49	2-1/2 and under 3-1/2	8	6	2,970	234,319	308	29,280	382	32,415	48	4,533
35317 51	3-1/2 and under 5	6	6	970	121,261	157	18,178	200	24,056	51	5,874
35317 53	5 and under 6-1/2	5	3	1,469	278,233	812	191,705	340	63,654	157	32,841
35317 55	6-1/2 and under 10	5	3								
35317 57	10 and under 15	1	1	282	139,402			48	21,091		
35317 59	15 and over	2	1								
35317 63	2-wheel drive, all sizes	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 3A. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1985--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Second quarter				Third quarter				Fourth quarter			
		Total shipments		Export shipments		Total shipments		Export shipments		Total shipments		Export shipments	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Total	(X)	1,601,652	(X)	322,130	(X)	1,389,005	(X)	277,775	(X)	1,730,918	(X)	305,729
35311 00	Contractors off-highway wheel tractors	2,019	135,856	190	17,080	1,655	108,451	135	12,111	1,646	122,849	174	15,068
	Wheel tractors for use as towing unit by horsepower rating (2- and 4-wheel)	1,554	104,526	75	7,271	1,382	90,038	65	6,681	1,319	100,383	127	10,610
	Single axle:												
35311 22	Under 300	1,078	77,405	(D)	(D)	872	60,827	(D)	(D)	699	67,192	(D)	(D)
35311 24	300 and over			(D)	(D)			(D)	(D)			(D)	(D)
	Two axle:												
35311 31	Under 150	476	27,121	-	-	510	29,211	(D)	(D)	620	33,191	(D)	(D)
35311 26	150 to 299			-	-			(D)	(D)			(D)	(D)
35311 28	300 and over			(D)	(D)			-	-			(D)	(D)
	Rubber-tired dozers (maximum engine hp)	465	31,330	115	9,809	273	18,413	70	5,430	327	22,4	47	4,458
35311 33	125 to 299												
35311 35	300 and over												
35311 37	Wheeled log skidders, self-propelled												
35316 00	Mixers, pavers, and related equipment	20,453	185,707	880	9,405	17,952	149,038	823	5,038	15,616	146,486	746	5,814
	Concrete mixers:												
35316 12	Portable, 3-1/2 cu. yd. capacity and over (except plaster and mortar) hand or power operated	3,106	3,049	(D)	(D)	2,267	1,544	(D)	(D)	2,358	1,798	(D)	(D)
35316 21	Truck mixer or agitator	850	19,357	(D)	(D)	933	20,650	(D)	(D)	854	18,855	(D)	(D)
35316 25	Other than truck mixer	486	7,433	(D)	(D)	454	7,469	(D)	(D)	468	13,444	(D)	(D)
35316 31	Plaster and mortar, all sizes	3,224	5,408	(D)	(D)	2,419	4,416	(D)	(D)	2,285	4,119	(D)	(D)
35316 32	Concrete slipform pavers	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	-	-
35316 33	Concrete slipform curbers, gutter and sidewalk pavers	1,872	18,195	74	1,271	1,570	14,693	67	1,278	1,071	9,154	72	1,418
35316 35	Concrete deck and slab finishers	6,512	2,984	616	314	6,503	3,108	607	306	5,260	2,443	502	249
35316 36	Concrete trowels	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35316 40	Concrete vibrators	134	12,034	(D)	(D)	130	11,218	(D)	(D)	106	9,454	(D)	(D)
35316 42	Concrete screeds (hand propelled or winch type)	228	3,890	11	196	169	2,734	8	113	191	3,491	9	224
35316 37	Concrete batching plants, bin and batch (for concrete aggregate only and bulk cement)	125	14,607	(D)	(D)	108	10,185	(D)	(D)	140	12,504	(D)	(D)
	Concrete pumps, mobile:												
	Trailer mounted (cu. yds./hr.):												
35316 17	Under 25												
35316 18	25 and over												
	Truck mounted (including value of booms and trucks) (cu. yds./hr.):												
35316 19	Under 50												
35316 20	40 to 100												
35316 23	Over 100												
	Bituminous:												
35316 41	Distributors	235	5,072	(D)	(D)	210	4,434	(D)	(D)	108	2,135	(D)	(D)
	Pavers, self-propelled (lbs. gross wt.)	334	29,928	(D)	(D)	271	24,712	(D)	(D)	271	26,670	(D)	(D)
35316 13	Under 8,500	145	4,481	-	-	110	2,945	-	-	87	2,432	-	-
35316 14	8,500 through 19,999			(D)	(D)			-	-			-	-
35316 15	20,000 through 34,999	189	25,447	(D)	(D)	161	21,767	(D)	(D)	184	24,238	(D)	(D)
35316 16	35,000 and over			-	-			-	-			-	-
	Asphalt plants:												
	Central mixing plants (batch type and continuous type) (tph)	68	25,775	(D)	(D)	44	12,573	-	-	38	12,697	(D)	(D)
35316 45	Less than 2,000 (less than 60 tph)			(D)	(D)			-	-			-	-
35316 46	2,000 to 3,500 (60 to 199 tph)			-	-			-	-			(D)	(D)
35316 47	3,501 to 5,500 (120 to 179 tph)			-	-			-	-			-	-
35316 48	5,501 to 7,500 (180 to 239 tph)			-	-			-	-			-	-
35316 49	7,501 and over (240 tph and over)			-	-			-	-			-	-
35316 51	Asphalt boxes, not self-propelled	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	-	-
	Stabilizations mixing equipment:												
35316 54	Central plants	-	-	-	-	-	-	-	-	-	-	-	-
35316 55	Mix-in-place	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)	-	-
	Pavement reclaimers/planers (self-propelled):												
35316 56	0 to 24,999 (machine weight)	127	17,855	(D)	(D)	92	12,087	-	-	100	14,073	-	-
35316 57	25,000 to 59,999 (machine weight)			(D)	(D)			(D)	(D)			(D)	(D)
35316 58	60,000 lbs. and over (machine weight)			(D)	(D)			(D)	(D)			(D)	(D)
35316 59	Other concrete and bituminous equipment not specified above, including mixers, heating kettles, heaters, circulators, travel mix type and spreader boxes	1,366	14,774	37	375	1,390	14,995	35	517	996	11,410	55	410
35317 00	Tractor shovel loaders	13,914	478,353	2,005	92,987	12,251	442,286	1,693	88,832	13,221	503,872	1,710	99,210
	4-wheel drive skid steer (hp):												
35317 37	Under 35	3,398	37,170	705	6,070	2,683	29,555	563	4,873	2,791	30,387	474	3,866
35317 39	35 and over	1,823	29,123	270	3,767	1,605	25,788	300	4,275	1,281	20,750	214	3,120
	Wheel type, rear engine mount, integral design	2,329	230,252	427	67,398	2,111	228,494	365	64,997	2,618	290,689	526	79,745
	4-wheel drive (cu. yd. bucket capacity):												
35317 41	Under 1	109	2,611	32	1,418	105	2,599	40	1,759	147	4,026	39	1,448
35317 43	1 and under 1-1/2	145	6,795			93	4,089			58	2,498		
35317 45	1-1/2 and under 2	186	7,083	53	3,616	192	8,759	44	2,756	123	5,814	89	5,228
35317 47	2 and under 2-1/2	417	25,845			253	15,512			509	31,809		
35317 49	2-1/2 and under 3-1/2	846	65,041	80	6,906	800	60,271	50	4,525	962	76,588	130	13,316
35317 51	3-1/2 and under 5	256	30,527	59	6,419	239	30,836	21	3,003	275	35,842	26	2,882
35317 53	5 and under 6-1/2	319	57,877	203	49,039	351	67,215	210	52,954	459	89,487	242	56,871
35317 55	6-1/2 and under 10												
35317 57	10 and under 15	71	34,473			78	39,213			85	44,625		
35317 59	15 and over												
35317 63	2-wheel drive, all sizes	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 3A. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1985--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Total company count	Export company count	Total shipments		Export shipments		First quarter			
								Total shipments		Export shipments	
				Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
35318 00	Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons	(NA)	(NA)	23,527	1,788,524	2,600	404,313	5,607	391,669	654	92,754
	Scrapers bowls	10	7	3,523	191,937	317	19,399	751	41,167	89	6,410
	Conventional scraper bowls (dig, carrying, and hauling) used as part of a self-propelled, nonelevating, 2-wheel type scraper, S.A.E. struck rating (cu. yd.):										
35318 10	Under 18	6	4	1,537	97,596	(D)	(D)	340	21,800	(D)	(D)
35318 11	18 and over	3	1			(D)	(D)			(D)	(D)
	Elevating scraper bowls (dig, carrying, and hauling) 2- and 4-wheel type, S.A.E. heaped rating (cu. yd. heaped):										
35318 17	7 and under 12	4	3	992	45,654	133	5,317	204	9,625	31	1,300
35318 18	12 and under 18	3	3								
35318 20	18 and under 26	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 22	26 and over	1	1	(D)	(D)	(D)	(D)	(D)	(D)	-	-
35318 29	All other scraper bowls, towed type, 2- and 4-wheel and other scraper bowls not elsewhere reported	2	1	(D)	(D)	(D)	(D)	(D)	(D)	-	-
	Motor graders and light maintainers (nehp)	10	3	4,936	400,323	876	79,347	1,133	93,001	245	21,708
35318 23	Under 75	4	-	326	16,790			90	4,800		
35318 24	75 to 114	2	1								
35318 25	115 to 144	3	2			876	79,347			245	21,708
35318 28	145 to 199	5	3	4,610	383,533			1,043	88,201		
35318 30	200 and over	4	1								
	Rollers-self-propelled type, ride on	(NA)	(NA)	8,018	213,904	(D)	(D)	2,141	53,533	(D)	(D)
	Static compaction equipment	(NA)	(NA)	2,924	87,552	(D)	(D)	861	23,936	(D)	(D)
	Smooth steel wheel rollers (tons):										
35318 27	Under 3	9	-	1,416	6,419	-	-	424	1,803	-	-
35318 32	4 tons (3 through 4-1/2)	6	1	338	6,362	(D)	(D)	110	1,852	-	-
35318 33	5 tons (4-1/2 through 7-1/2)	4	-	150	3,614	-	-	49	1,203	-	-
35318 38	8 and over (above 7-1/2)	4	1	201	6,979	(D)	(D)	82	2,851	-	-
	Pneumatic tire rollers (lbs. wheel load):										
35318 51	4,000 and under	6	1	401	12,121	(D)	(D)	86	2,489	(D)	(D)
35318 52	Over 4,000 up through 8,000	1	1	(D)	(D)	(D)	(D)	(D)	(D)	-	-
35318 54	Over 8,000	-	-	-	-	-	-	-	-	-	-
	Multiple projection steel wheel rollers:										
35318 43	Embankment	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 45	Landfill	4	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Vibratory compaction equipment	(NA)	(NA)	5,094	126,352	(D)	(D)	1,280	29,597	(D)	(D)
	Single drum and double drum, one drum vibrating (tons gross wt.):										
35318 40	Under 6	7	1	932	11,734	(D)	(D)	306	3,560	(D)	(D)
35318 41	6 and over	9	2	1,305	67,855	(D)	(D)	295	15,780	(D)	(D)
	Double drum, two drum vibrating (tons gross wt.):										
35318 46	Under 8	9	1	1,265	22,028	(D)	(D)	362	5,372	(D)	(D)
35318 47	8 and over	9	3	1,592	24,735	(D)	(D)	317	4,885	(D)	(D)
35318 44	Other compactors (except hand held)	2	1			(D)	(D)			-	-
	Rollers, towed type	(NA)	(NA)	86	1,025	(D)	(D)	45	664	(D)	(D)
35318 42	Pneumatic tire including vibratory	1	1			(D)	(D)			(D)	(D)
35318 49	Sheeps foot and bar type	4	1	86	1,025	(D)	(D)	45	664	(D)	(D)
35318 56	Vibratory-single drum	2	1			(D)	(D)			(D)	(D)
	Off-highway equipment	17	8	6,964	981,335	1,001	284,686	1,537	203,304	236	59,150
	Rear dump earth rocks, and ore load on back haulers (ton capacity)	(NA)	(NA)	1,597	371,254	897	260,038	374	78,841	205	53,410
35318 53	30 and under	-	-	-	-	-	-	-	-	-	-
35318 59	Over 30 up to and including 45	4	2								
35318 65	Over 45 up to and including 70	6	3								
35318 69	Over 70 up to and including 100	2	1	1,597	371,254	897	260,038	374	78,841	205	53,410
35318 70	Over 100	2	2								
35318 84	Integral self-powered side and bottom dumps including coal haulers (all sizes)	1	1	(D)	(D)	(D)	(D)	-	-	-	-
	Off-highway truck type, rear dump chassis used as a tractor for towing earth, rock, coal, and ore trailers (gross hp).	(NA)	(NA)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 85	Under 600	1	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 86	600 through 899	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 92	900 and over	1	1	(D)	(D)	(D)	(D)	-	-	-	-
35318 93	Other truck-type tractor chassis, used for log hauling, oilfields, desert, and other uses	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Off-highway trailers and wagons (end, side, and bottom dump) (ton capacity)	(NA)	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 94	Under 90	2	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 95	90 through 129	1	-	(D)	(D)	-	-	-	-	-	-
35318 96	130 and over	-	-	-	-	-	-				
35318 00	Construction machinery for mounting on tractors, shovel loaders, or other prime movers	37	18	129,113	533,476	16,708	78,614	31,593	104,396	4,214	19,214
	Sideboom or pipehandlers (lbs. lift capacity)	(NA)	(NA)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 71	Under 30,000	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 72	30,000 to 110,000	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 73	Over 110,000	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 77	Dozers for crawlers and wheel tractors, all sizes	7	5	6,960	66,608	1,727	21,402	1,493	14,886	397	5,283
35318 78	Winches (towing, logging and oilfield types)	9	6	54,271	39,868	9,529	9,988	16,821	10,907	2,488	2,912

See footnotes at end of table.

Table 3A. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1985--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Second quarter				Third quarter				Fourth quarter			
		Total shipments		Export shipments		Total shipments		Export shipments		Total shipments		Export shipments	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
38318 00	Scrapers, loaders, rollers, and off-highway trucks, trailers, and wagons	6,091	421,223	705	108,409	4,983	359,628	596	93,870	6,846	616,004	645	109,280
	Scrapers bowls	1,016	55,269	67	4,315	830	43,071	51	2,925	926	52,430	110	5,749
	Conventional scraper bowls (dig, carrying, and hauling) used as part of a self-propelled, nonelevating, 2-wheel type scraper, S.A.E. struck rating (cu. yd.):												
35318 10	Under 18	445	28,025	(D)	(D)	340	19,785	(D)	(D)	412	27,986	(D)	(D)
35318 11	18 and over			(D)	(D)			(D)	(D)			(D)	(D)
	Elevating scraper bowls (dig, carrying, and hauling) 2- and 4-wheel type, S.A.E. heaped rating (cu. yd. heaped:												
35318 17	7 and under 12	287	12,858	21	784	239	11,095	12	489	262	12,076	69	2,744
35318 18	12 and under 18												
35318 20	18 and under 26	(D)	(D)	-	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 22	26 and over	(D)	(D)	-	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-
35318 29	All other scraper bowls, towed type, 2- and 4-wheel and other scraper bowls not elsewhere reported	(D)	(D)	(D)	(D)	(D)	(D)	-	-	(D)	(D)	-	-
	Motor graders and light maintainers (nehp)	1,479	117,241	263	22,825	1,102	89,638	186	17,219	1,222	100,443	182	17,595
35318 23	Under 75	98	5,016	263	22,825	55	2,668	186	17,219	83	4,306	182	17,595
35318 24	75 to 114												
35318 25	115 to 144												
35318 28	145 to 199	1,381	112,225			1,047	86,970			1,139	96,137		
	Rollers-self-propelled type, ride on	2,340	63,199	(D)	(D)	1,729	43,809	(D)	(D)	1,808	53,363	(D)	(D)
	Static compaction equipment	824	23,781	(D)	(D)	647	17,766	(D)	(D)	592	22,069	(D)	(D)
	Smooth steel wheel rollers (tons):												
35318 27	Under 3	406	1,891	-	-	337	1,616	-	-	249	1,109	-	-
35318 32	4 tons (3 through 4-1/2)	84	1,668	(D)	(D)	70	1,434	-	-	74	1,408	-	-
35318 33	5 tons (4-1/2 through 7-1/2)	42	994	-	-	36	846	-	-	23	571	-	-
35318 38	8 and over (above 7-1/2)	64	2,213	(D)	(D)	30	1,067	-	-	25	848	(D)	(D)
	Pneumatic tire rollers (lbs. wheel load):												
35318 51	4,000 and under	122	3,861	(D)	(D)	93	2,849	(D)	(D)	100	2,922	-	-
35318 52	Over 4,000 up through 8,000	(D)	(D)	-	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-
35318 54	Over 8,000	-	-	-	-	-	-	-	-	-	-	-	-
	Multiple projection steel wheel rollers:												
35318 43	Embankment	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 45	Landfill	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Vibratory compaction equipment	1,516	39,418	(D)	(D)	1,082	26,043	(D)	(D)	1,216	31,294	(D)	(D)
	Single drum and double drum, one drum vibrating (tons gross wt.):												
35318 40	Under 6	255	3,091	(D)	(D)	157	2,093	(D)	(D)	214	2,990	(D)	(D)
35318 41	6 and over	415	22,146	(D)	(D)	261	13,043	(D)	(D)	334	16,886	(D)	(D)
	Double drum, two drum vibrating (tons gross wt.):												
35318 46	Under 8	362	6,497	(D)	(D)	225	4,085	(D)	(D)	316	6,074	(D)	(D)
35318 47	8 and over			(D)	(D)			(D)	(D)			(D)	(D)
35318 44	Other compactors (except hand held)	484	7,684	-	-	439	6,822	(D)	(D)	352	5,344	(D)	(D)
	Rollers, towed type	27	249	(D)	(D)	11	33	(D)	(D)	8	79	(D)	(D)
35318 42	Pneumatic tire including vibratory			-	-			-	-			-	-
35318 49	Sheeps foot and bar type	22	249	(D)	(D)	11	33	-	-	8	79	-	-
35318 56	Vibratory-single drum			-	-			(D)	(D)			(D)	(D)
	Off-highway equipment	1,234	185,265	231	74,523	1,311	183,077	251	69,065	2,882	409,689	283	81,948
	Rear dump earth rocks, and ore load on back haulers (ton capacity)	346	92,506	204	66,966	372	87,857	234	65,927	505	112,050	254	73,735
35318 53	30 and under	-	-	-	-	-	-	-	-	-	-	-	-
35318 59	Over 30 up to and including 45												
35318 65	Over 45 up to and including 70												
35318 69	Over 70 up to and including 100	346	92,506	204	66,966	372	87,857	234	65,927	505	112,050	254	73,735
35318 70	Over 100												
35318 84	Integral self-powered side and bottom dumps including coal haulers (all sizes)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-	-	-
	Off-highway truck type, rear dump chassis used as a tractor for towing earth, rock, coal, and ore trailers (gross hp)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 85	Under 600	-	-	-	-	-	-	-	-	(D)	(D)	-	-
35318 86	600 through 899	(D)	(D)	-	-	-	-	-	-	(D)	(D)	(D)	(D)
35318 92	900 and over	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 93	Other truck-type tractor chassis, used for log hauling, oilfields, desert, and other uses	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Off-highway trailers and wagons (end, side, and bottom dump) (ton capacity)	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 94	Under 90	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 95	90 through 129	-	-	-	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 96	130 and over	-	-	-	-	-	-	-	-	-	-	-	-
35318 00	Construction machinery for mounting on tractors, shovel loaders, or other prime movers	35,084	152,573	5,205	22,743	31,501	135,654	3,868	19,846	30,935	140,853	3,421	16,811
	Sidebooms or pipehandlers (lbs. lift capacity)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 71	Under 30,000	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 72	30,000 to 110,000	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 73	Over 110,000	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 77	Dozers for crawlers and wheel tractors, all sizes	1,848	17,229	470	5,140	1,693	16,678	426	5,667	1,926	17,815	434	5,312
35318 78	Winches (towing, logging and oilfield types)	13,830	10,566	2,920	2,471	12,851	9,631	2,288	2,473	10,769	8,764	1,833	2,132

See footnotes at end of table.

Table 3A. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1985--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Total company count	Export company count	Total shipments		Export shipments		First quarter			
								Total shipments		Export shipments	
				Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Construction machinery for mounting on tractors, shovel loaders, or other prime movers--Continued										
	Backhoes (digging depth)	(NA)	(NA)	22,831	230,217	1,359	13,930	3,818	38,231	270	2,830
35318 79	Under 14 ft.	10	7	5,012	42,087	1,359	13,930	1,008	8,836	270	2,830
35318 80	14 ft. and over	6	4	17,819	188,130			2,810	29,395		
35318 82	Front-end loaders (3/8 cu. yd. and over), nonfarm type	5	3	23,570	94,926	1,404	6,267	4,189	17,133	288	1,289
35318 83	Logging arches	2	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 87	Rippers and rooters, heavy rear mounted	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Continuous ditching and trenching attachments:										
35318 88	Crawler, vehicle mounted	-	-	-	-	-	-	-	-	-	-
35318 89	Rubber-tired, vehicle mounted	2	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 90	Fork lifts	8	3	5,328	24,197	(D)	(D)	675	3,172	(D)	(D)
35318 91	All other construction machinery for mounting, including cranes, cable power control units, hydraulic power control units, etc.	9	2	13,330	37,446	(D)	(D)	3,946	11,208	(D)	(D)
35319 00	Other construction machinery and equipment	(NA)	(NA)	8,281	169,712	576	11,759	1,932	40,351	134	1,781
	Self-propelled continuous ditchers and trenchers (integral units only)	7	2	7,577	118,037	(D)	(D)	1,748	28,281	(D)	(D)
	Ladder type digging element (lbs. gross wt.)	(NA)	(NA)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35319 14	Under 2,000	4	2	3,157	13,194	(D)	(D)	738	2,986	(D)	(D)
35319 15	2,000 to 4,999	4	2	3,406	53,658	(D)	(D)	720	11,262	(D)	(D)
35319 17	5,000 and over	4	1	1,014	51,185	(D)	(D)	290	14,033	(D)	(D)
35319 18	Wheel type digging element	2	1			(D)	(D)			-	-
	Portable crushing, screening, washing, and combination plants	10	2	704	51,675	(D)	(D)	184	12,070	(D)	(D)
	Crushing plants (based upon type of crusher first in the processing flow)	(NA)	(NA)	160	31,120	(D)	(D)	33	6,113	(D)	(D)
35319 41	Gyratory	5	1			(D)	(D)			-	-
35319 42	Impact	3	1	160	31,120	(D)	(D)	33	2,613	(D)	(D)
35319 43	Jaw	7	2			(D)	(D)			-	-
35319 44	Roll	1	1			(D)	(D)			-	-
35319 45	Screening plants	7	2	544	20,555	(D)	(D)	151	5,957	(D)	(D)
35319 46	Washing and other plants	2	-			-	-			-	-
	Portable crushers incorporated in crushing plants	6	-	166	13,371	-	-	33	2,613	-	-
35319 31	Gyratory	5	-			-	-			-	-
35319 32	Impact	3	-	166	13,371	-	-	33	2,613	-	-
35319 33	Jaw	7	-			-	-			-	-
35319 34	Roll	1	-			-	-			-	-
35317 30	Wheel tractors, chassis shipped as part of front engine mount integral design tractor shovel loader/backhoe	3	3	19,793	452,008	(D)	(D)	3,090	71,881	(D)	(D)
35312 00	Tracklaying tractors (nehp)	7	5	7,321	628,680	1,879	236,045	1,510	135,299	395	54,993
35312 11	20 to 44	1	1								
35312 13	45 to 59	1	1								
35312 15	60 to 89	4	2								
35312 19	90 to 124	4	2	7,321	628,680	1,879	236,045	1,510	135,299	395	54,993
35312 21	125 to 159	5	4								
35312 22	160 to 259	3	3								
35312 24	260 to 344	4	2								
35312 27	345 and over	3	2								
35317 20	Tracklaying-tractor shovel loaders (nehp)	4	3	2,592	158,469	(D)	(D)	548	36,293	(D)	(D)
35317 11	20 to 44	1	1			(D)	(D)			(D)	(D)
35317 13	45 to 59	1	1			(D)	(D)			-	-
35317 15	60 to 89	4	3	2,592	158,469	(D)	(D)	548	36,293	(D)	(D)
35317 19	90 to 124	3	1			(D)	(D)			(D)	(D)
35317 21	125 to 159	4	1			(D)	(D)			(D)	(D)
35317 22	160 to 259	3	1			(D)	(D)			(D)	(D)
35317 25	260 and over	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 3A. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1985--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Second quarter				Third quarter				Fourth quarter			
		Total shipments		Export shipments		Total shipments		Export shipments		Total shipments		Export shipments	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Construction machinery for mounting on tractors, shovel loaders, or other prime movers--Continued												
	Backhoes (digging depth)	6,664	68,144	524	5,512	5,904	58,472	252	2,419	6,445	65,370	313	3,169
35318 79	Under 14 ft.	1,345	11,544	524	5,512	1,418	11,424	252	2,419	1,241	10,283	313	3,169
35318 80	14 ft. and over	5,319	56,600			4,486	47,048			5,204	55,087		
35318 82	Front-end loaders (3/8 cu. yd. and over), nonfarm type	6,933	28,250	546	2,345	5,855	23,424	260	1,120	6,593	26,119	310	1,513
35318 83	Logging arches	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 87	Rippers and rooters, heavy rear mounted	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Continuous ditching and trenching attachments:												
35318 88	Crawler, vehicle mounted	-	-	-	-	-	-	-	-	-	-	-	-
35318 89	Rubber-tired, vehicle mounted	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 90	Fork lifts	1,633	7,509	(D)	(D)	1,413	6,361	(D)	(D)	1,607	7,155	(D)	(D)
35318 91	All other construction machinery for mounting, including cranes, cable power control units, hydraulic power control units, etc.	3,429	10,934	(D)	(D)	3,012	8,820	(D)	(D)	2,943	6,484	(D)	(D)
35319 00	Other construction machinery and equipment	2,481	52,394	144	4,007	2,147	38,554	91	1,509	1,721	38,413	207	4,462
	Self-propelled continuous ditchers and trenchers (integral units only)	2,295	35,859	(D)	(D)	1,972	28,511	(D)	(D)	1,562	25,386	(D)	(D)
	Ladder type digging element (lbs. gross wt.)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35319 14	Under 2,000	959	3,541	(D)	(D)	916	3,928	(D)	(D)	544	2,739	(D)	(D)
35319 15	2,000 to 4,999	1,048	17,805	(D)	(D)	806	12,809	(D)	(D)	832	11,782	(D)	(D)
35319 17	5,000 and over	288	14,513	(D)	(D)	250	11,774	(D)	(D)	186	10,865	(D)	(D)
35319 18	Wheel type digging element			(D)	(D)			-	-			-	-
	Portable crushing, screening, washing, and combination plants	186	16,535	(D)	(D)	175	10,043	(D)	(D)	159	13,027	(D)	(D)
	Crushing plants (based upon type of crusher first in the processing flow)	57	11,971	(D)	(D)	26	4,456	(D)	(D)	44	8,580	(D)	(D)
35319 41	Gyratory			(D)	(D)			(D)	(D)			(D)	(D)
35319 42	Impact			(D)	(D)			-	-			-	-
35319 43	Jaw	57	11,971	(D)	(D)	26	4,456	-	-	44	8,580	(D)	(D)
35319 44	Roll			(D)	(D)			-	-			-	-
35319 45	Screening plants	129	4,564	(D)	(D)	149	5,587	(D)	(D)	115	4,447	(D)	(D)
35319 46	Washing and other plants			-	-			-	-			-	-
	Portable crushers incorporated in crushing plants	59	5,236	-	-	26	1,714	-	-	48	3,808	-	-
35319 31	Gyratory			-	-			-	-			-	-
35319 32	Impact			-	-			-	-			-	-
35319 33	Jaw	59	5,236	-	-	26	1,714	-	-	48	3,808	-	-
35319 34	Roll			-	-			-	-			-	-
35317 30	Wheel tractors, chassis shipped as part of front engine mount integral design tractor shovel loader/backhoe	5,537	129,376	(D)	(D)	5,221	119,450	(D)	(D)	5,945	131,301	(D)	(D)
35312 00	Tracklaying tractors (nehp)	2,099	175,546	542	67,499	1,826	155,394	504	58,469	1,886	162,441	438	55,084
35312 11	20 to 44												
35312 13	45 to 59												
35312 15	60 to 89												
35312 19	90 to 124	2,099	175,546	542	67,499	1,826	155,394	504	58,469	1,886	162,441	438	55,084
35312 21	125 to 159												
35312 22	160 to 259												
35312 24	260 to 344												
35312 27	345 and over												
35317 20	Tracklaying-tractor shovel loaders (nehp)	827	52,432	(D)	(D)	631	38,999	(D)	(D)	586	30,745	(D)	(D)
35317 11	20 to 44			(D)	(D)			(D)	(D)			(D)	(D)
35317 13	45 to 59			(D)	(D)			(D)	(D)			-	-
35317 15	60 to 89			(D)	(D)			(D)	(D)			(D)	(D)
35317 19	90 to 124	827	52,432	(D)	(D)	631	38,999	(D)	(D)	586	30,745	(D)	(D)
35317 21	125 to 159			(D)*	(D)			(D)	(D)			-	-
35317 22	160 to 259			-	-			(D)	(D)			-	-
35317 25	260 and over	-	-	-	-	-	-	-	-	-	-	-	-

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. nehp = Net engine horsepower. tph = Tons per hour.
(X) Not applicable.

Table 3b. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1984

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Total company count	Export company count	Total shipments		Export shipments		First quarter			
								Total shipments		Export shipments	
				Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Total	(NA)	(NA)	(X)	4,058,282	(X)	677,372	(X)	940,256	(X)	156,870
35311 00	Contractors off-highway wheel tractors	14	7	5,602	421,871	581	56,852	1,425	101,032	185	17,602
	Wheel tractors for use as towing unit by horsepower rating (2- and 4-wheel)	12	4	3,265	264,568	337	35,293	722	54,361	130	12,310
	Single axle:										
35311 22	Under 300	6	3	2,526	225,390	245	32,375	516	42,798	98	10,442
35311 24	300 and over	2	2								
	Two axle:										
35311 31	Under 150	3	-	739	39,178	-	-	206	11,563	-	-
35311 26	150 to 299	3	1			(D)	(D)			(D)	(D)
35311 28	300 and over	2	2			(D)	(D)			(D)	(D)
	Rubber-tired dozers (maximum engine hp)	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35311 33	125 to 299	2	1								
35311 35	300 and over	1	1								
35311 37	Wheeled log skidders, self-propelled	6	2	2,337	157,303	244	21,559	703	46,671	55	5,292
35316 00	Mixers, pavers, and related equipment	93	44	76,951	485,491	2,781	28,635	17,114	124,651	711	9,546
	Concrete mixers:										
35316 12	Portable, 3-1/2 cu. yd. capacity and over (except plaster and mortar) hand or power operated	13	3	9,120	5,239	(D)	(D)	1,932	1,688	(D)	(D)
35316 21	Truck mixer or agitator	10	5	3,091	56,645	27	490	799	12,516	9	94
35316 25	Other than truck mixer	5	1	1,812	28,279			482	7,092		
35316 31	Plaster and mortar, all sizes	8	2	29,159	31,180	(D)	(D)	5,894	6,281	(D)	(D)
35316 32	Concrete slipform pavers	4	1	353	24,875	37	3,387	95	6,678	9	1,228
35316 33	Concrete slipform curbers, gutter and sidewalk pavers	7	4								
35316 35	Concrete deck and slab finishers	3	2								
35316 36	Concrete trowels	6	5	3,933	4,499	170	483	1,053	1,127	46	110
35316 40	Concrete vibrators	12	4	21,557	9,751	2,065	991	4,917	2,196	509	223
35316 42	Concrete screeds (hand propelled or winch type)	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35316 37	Concrete batching plants, bin and batch (for concrete aggregate only and bulk cement)	11	2	336	28,325	(D)	(D)	90	7,535	(D)	(D)
	Concrete pumps, mobile:										
	Trailer mounted (cu. yds./hr.):										
35316 17	Under 25	4	2	1,074	12,108	27	303	268	2,805	8	71
35316 18	25 and over	7	4								
	Truck mounted (including value of booms and trucks) (cu. yds./hr.):										
35316 19	Under 50	1	1	381	42,623	15	952	95	12,775	5	238
35316 20	40 to 100	3	1								
35316 23	Over 100	5	1								
	Bituminous:										
35316 41	Distributors	4	2	352	7,908	(D)	(D)	57	1,322	(D)	(D)
	Pavers, self-propelled (lbs. gross wt.):	9	5	835	77,184			231	21,790		
35316 13	Under 8,500	1	1	325	10,994	(D)	(D)	88	3,693	-	-
35316 14	8,500 through 19,999	6	2							(D)	(D)
35316 15	20,000 through 34,999	5	3	510	66,190	(D)	(D)	143	18,097	(D)	(D)
35316 16	35,000 and over	3	-			-	-			-	-
	Asphalt plants:										
	Central mixing plants (batch type and continuous type) (tph)	10	3	126	71,367	16	3,816	31	18,891	4	638
35316 45	Less than 2,000 (less than 60 tph)	-	-	-	-	-	-	-	-	-	-
35316 46	2,000 to 3,500 (60 to 199 tph)	4	2								
35316 47	3,501 to 5,500 (120 to 179 tph)	2	1								
35316 48	5,501 to 7,500 (180 to 239 tph)	2	1								
35316 49	7,501 and over (240 tph and over)	7	2								
35316 51	Asphalt boxes, not self-propelled	4	-	(D)	(D)	-	-	(D)	(D)	-	-
	Stabilizations mixing equipment:										
35316 54	Central plants	-	-	-	-	-	-	-	-	-	-
35316 55	Mix-in-place	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pavement reclaimers/planers (self-propelled):										
35316 56	0 to 24,999 (machine weight)	5	1	272	42,871	27	5,802	65	11,829	5	2,492
35316 57	25,000 to 59,999 (machine weight)	5	2								
35316 58	60,000 lbs. and over (machine weight)	5	2								
35316 59	Other concrete and bituminous equipment not specified above, including mixers, heating kettles, heaters, circulators, travel mix type and spreader boxes	27	9	3,306	30,100	89	1,550	792	7,198	23	335
35317 00	Tractor shovel loaders	18	14	27,740	1,197,379	4,745	227,375	7,199	289,798	1,111	56,213
	4-wheel drive skid steer (hp):										
35317 37	Under 35	9	6	10,220	104,655	2,127	18,077	2,694	28,081	445	3,886
35317 39	35 and over	8	6	7,030	106,245	1,076	15,532	1,973	29,558	296	4,115
	Wheel type, rear engine mount, integral design, 4-wheel drive (cu. yd. bucket capacity):	13	12	10,490	986,479	1,542	193,766	2,532	232,159	370	48,212
35317 41	Under 1	5	2	584	14,947	121	6,183	185	4,849	35	1,557
35317 43	1 and under 1-1/2	5	3	700	36,450			186	9,163		
35317 45	1-1/2 and under 2	7	4	1,237	62,791	89	4,229	341	17,824	21	841
35317 47	2 and under 2-1/2	7	6	2,789	170,846	321	18,173	589	36,154	69	3,905
35317 49	2-1/2 and under 3-1/2	8	6	2,336	208,418	183	17,208	570	49,028	32	2,986
35317 51	3-1/2 and under 5	7	6	1,226	147,406	208	24,810	299	36,031	56	5,907
35317 53	5 and under 6-1/2	4	3	1,414	252,127	544	90,454	313	57,057	134	22,865
35317 55	6-1/2 and under 10	5	4								
35317 57	10 and under 15	1	1	204	93,494	76	32,709	49	22,053	23	10,151
35317 59	15 and over	2	2								
35317 63	2-wheel drive, all sizes	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 3B. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1984--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Second quarter				Third quarter				Fourth quarter			
		Total shipments		Export shipments		Total shipments		Export shipments		Total shipments		Export shipments	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Total	(X)	1,108,829	(X)	171,578	(X)	1,014,643	(X)	166,382	(X)	994,554	(X)	182,542
35311 00	Contractors off-highway wheel tractors	1,431	110,190	127	14,049	1,261	101,287	112	10,828	1,485	109,362	157	14,373
	Wheel tractors for use as towing unit by horsepower rating (2- and 4-wheel)	833	69,764	68	9,179	807	70,232	46	5,242	903	70,211	93	8,562
	Single axle:												
35311 22	Under 300	646	58,887	58	8,129	629	61,218	46	5,242	735	62,487	93	8,562
35311 24	300 and over												
	Two axle:												
35311 31	Under 150	187	10,877	-	-	178	9,014	-	-	168	7,724	-	-
35311 26	150 to 299			(D)	(D)								
35311 28	300 and over			(D)	(D)								
	Rubber-tired dozers (maximum engine hp)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35311 33	125 to 299	598	40,426	59	4,870	454	31,055	66	5,586	582	39,151	64	5,811
35311 35	300 and over												
35311 37	Wheeled log skidders, self-propelled												
35316 00	Mixers, pavers, and related equipment	22,057	143,283	727	8,548	20,365	113,458	795	5,858	17,415	104,099	548	4,683
	Concrete mixers:												
35316 12	Portable, 3-1/2 cu. yd. capacity and over (except plaster and mortar) hand or power operated	2,701	1,441	(D)	(D)	2,373	1,196	(D)	(D)	2,114	1,214	(D)	(D)
35316 21	Truck mixer or agitator	865	13,621	7	131	904	16,025	6	144	623	14,483	6	121
35316 25	Other than truck mixer	456	7,063			440	7,063			434	7,061		
35316 31	Plaster and mortar, all sizes	8,883	9,787	(D)	(D)	7,942	8,090	(D)	(D)	6,440	7,022	(D)	(D)
35316 32	Concrete slipform pavers	182	12,447	16	1,703	38	2,476	6	154	38	3,274	6	302
35316 33	Concrete slipform curbers, gutter and sidewalk pavers												
35316 35	Concrete deck and slab finishers												
35316 36	Concrete trowels	987	1,039	39	107	978	1,166	57	109	915	1,167	28	157
35316 40	Concrete vibrators												
35316 42	Concrete screeds (hand propelled or winch type)	5,795	2,622	526	263	5,923	2,656	605	288	4,922	2,277	425	217
35316 37	Concrete batching plants, bin and batch (for concrete aggregate only and bulk cement)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Concrete pumps, mobile:	111	8,715	(D)	(D)	74	6,668	(D)	(D)	61	5,407	(D)	(D)
	Trailer mounted (cu. yds./hr.):												
35316 17	Under 25	289	3,209	7	71	277	3,302	7	77	240	2,792	5	84
35316 18	25 and over												
	Truck mounted (including value of booms and trucks) (cu. yds./hr.):												
35316 19	Under 50	95	8,432	3	238	99	11,590	4	238	92	9,826	3	238
35316 20	40 to 100												
35316 23	Over 100												
	Bituminous:												
35316 41	Distributors	138	3,148	(D)	(D)	98	2,122	(D)	(D)	59	1,316	(D)	(D)
	Pavers, self-propelled (lbs. gross wt.):	230	21,914	(D)	(D)	169	15,765	(D)	(D)	205	17,715	(D)	(D)
35316 13	Under 8,500	62	2,831	-	-	65	2,224	-	-	90	2,246	(D)	(D)
35316 14	8,500 through 19,999			(D)	(D)			(D)	(D)			(D)	(D)
35316 15	20,000 through 34,999	148	19,083	(D)	(D)	104	13,541	(D)	(D)	115	15,469	-	-
35316 16	35,000 and over			-	-			-	-				
	Asphalt plants:												
	Central mixing plants (batch type and continuous type) (tph)	41	22,240	4	1,134	31	18,193	4	843	23	12,043	4	1201
35316 45	Less than 2,000 (less than 60 tph)	-	-	-	-	-	-	-	-	-	-	-	-
35316 46	2,000 to 3,500 (60 to 119 tph)												
35316 47	3,501 to 5,500 (120 to 179 tph)	41	22,240	4	1,134	31	18,193	4	843	23	12,043	4	1201
35316 48	5,501 to 7,500 (180 to 239 tph)												
35316 49	7,501 and over (240 tph and over)												
35316 51	Asphalt boxes, not self-propelled	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	-	-
	Stabilizations mixing equipment:												
35316 54	Central plants	-	-	-	-	-	-	-	-	-	-	-	-
35316 55	Mix-in-place	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
	Pavement reclaimers/planers (self-propelled):												
35316 56	0 to 24,999 (machine weight)	84	12,683	11	1,437	57	8,427	4	767	66	9,932	7	1106
35316 57	25,000 to 59,999 (machine weight)												
35316 58	60,000 lbs. and over (machine weight)												
35316 59	Other concrete and bituminous equipment not specified above, including mixers, heating kettles, heaters, circulators, travel mix type and spreader boxes	881	10,271	27	418	747	5,313	16	348	886	7,318	23	449
35317 00	Tractor shovel loaders	7,351	332,647	1,251	61,262	7,300	293,978	1,326	51,869	5,890	280,956	1,057	58,031
	4-wheel drive skid steer (hp):												
35317 37	Under 35	2,655	27,472	534	4,405	2,527	25,283	618	5,172	2,344	23,819	530	4,614
35317 39	35 and over	1,938	29,791	303	4,715	2,173	31,177	364	5,160	946	15,719	113	1,542
	Wheel type, rear engine mount, integral design 4-wheel drive (cu. yd. bucket capacity):	2,758	275,384	414	52,142	2,600	237,518	344	41,537	2,600	241,418	414	51,875
35317 41	Under 1	134	3,724	32	1,408	163	4,321	34	1,670	102	2,053	20	1,548
35317 43	1 and under 1-1/2	169	8,811			180	9,575			165	8,901		
35317 45	1-1/2 and under 2	349	17,271	27	1,240	281	14,271	9	432	266	13,425	32	1,716
35317 47	2 and under 2-1/2	649	38,828	70	3,907	751	46,489	78	4,686	800	49,375	104	5,675
35317 49	2-1/2 and under 3-1/2	590	58,784	48	4,502	517	44,329	37	3,511	659	56,277	66	6,209
35317 51	3-1/2 and under 5	371	44,268	69	7,727	298	35,576	40	4,707	258	31,531	43	6,469
35317 53	5 and under 6-1/2	434	74,791	149	24,650	371	65,900	133	21,409	296	54,379	128	21,530
35317 55	6-1/2 and under 10												
35317 57	10 and under 15	62	28,907	19	8,708	39	17,057	13	5,122	54	25,477	21	8,728
35317 59	15 and over												
35317 63	2-wheel drive, all sizes	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 3B. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1984—Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Total company count	Export company count	Total shipments		Export shipments		First quarter			
								Total shipments		Export shipments	
				Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
35318 00	Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons	44	25	17,545	1,290,734	2,134	283,765	3,786	265,966	526	54,169
	Scrapers bowls	8	7	2,740	167,142	309	21,782	497	40,071	110	6,854
	Conventional scraper bowls (dig, carrying, and hauling) used as part of a self-propelled, nonelevating, 2-wheel type scraper, S.A.E. struck rating (cu. yd.):										
35318 10	Under 18	4	2	1,324	96,997	124	13,312	100	21,546	41	4,389
35318 11	18 and over	3	2								
	Elevating scraper bowls (dig, carrying, and hauling) 2- and 4-wheel type, S.A.E. heaped rating (cu. yd. heaped):										
35318 17	7 and under 12	4	4	1,174	53,001	160	6,551	347	14,868	64	2,215
35318 18	12 and under 18	4	4								
35318 20	18 and under 26	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 22	26 and over	1	1								
35318 29	All other scraper bowls, towed type, 2- and 4-wheel and other scraper bowls not elsewhere reported	-	-	-	-	-	-	-	-	-	-
	Motor graders and light maintainers (nehp)	8	5	4,816	377,370	701	58,876	979	85,372	165	14,453
35318 23	Under 75	5	2	473	26,440	(D)	(D)	101	5,619	-	-
35318 24	75 to 114	2	1							(D)	(D)
35318 25	115 to 144	4	3	4,343	350,930	640	52,383	878	79,753	154	13,231
35318 28	145 to 199	5	4			(D)	(D)			(D)	(D)
35318 30	200 and over	3	3								
	Rollers-self-propelled type, ride on	28	12	5,750	179,393	453	21,561	1,332	41,419	178	8,308
	Static compaction equipment	16	4	2,738	72,379	113	9,612	660	19,393	38	2,983
	Smooth steel wheel rollers (tons):										
35318 27	Under 3	9	-	1,060	4,082	-	-	256	1,218	-	-
35318 32	4 tons (3 through 4-1/2)	10	2	611	8,652	(D)	(D)	146	2,006	(D)	(D)
35318 33	5 tons (4-1/2 through 7-1/2)	5	-	113	2,693	-	-	23	525	-	-
35318 38	8 and over (above 7-1/2)	6	-	220	7,628			69	2,455		
	Pneumatic tire rollers (lbs. wheel load):										
35318 51	4,000 and under	6	3	420	12,694	(D)	(D)	76	2,557	(D)	(D)
35318 52	Over 4,000 up through 8,000	4	-			-	-			-	-
35318 54	Over 8,000	1	-			-	-			-	-
	Multiple projection steel wheel rollers:										
35318 43	Embankment	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 45	Landfill	4	4								
	Vibratory compaction equipment	14	6	3,012	107,014	340	11,949	672	22,026	140	5,325
	Single drum and double drum, one drum vibrating (tons gross wt.):										
35318 40	Under 6	9	4	391	6,838	(D)	(D)	90	1,573	(D)	(D)
35318 41	6 and over	11	4	1,081	56,871			212	11,023		
	Double drum, two drum vibrating (tons gross wt.):										
35318 46	Under 8	11	4	1,074	20,918	(D)	(D)	262	5,260	(D)	(D)
35318 47	8 and over	10	2	466	22,387			108	4,170		
35318 44	Other compactors (except hand held)	1	1								
	Rollers, towed type	5	-	127	1,414	-	-	39	452	-	-
35318 42	Pneumatic tire including vibratory	2	-								
35318 49	Sheeps foot and bar type	4	-	127	1,414	-	-	39	452	-	-
35318 56	Vibratory-single drum	3	-								
	Off-highway equipment	11	8	4,112	565,415	671	181,546	939	98,652	73	24,554
	Rear dump earth rocks, and ore load on back haulers (ton capacity)	6	5	1,641	309,504	614	169,028	288	41,871	58	22,012
35318 53	30 and under	2	1								
35318 59	Over 30 up to and including 45	3	3								
35318 65	Over 45 up to and including 70	5	4	1,641	309,504	614	169,028	288	41,871	58	22,012
35318 69	Over 70 up to and including 100	5	4								
35318 70	Over 100	3	2								
35318 84	Integral self-powered side and bottom dumps including coal haulers (all sizes)	-	-	-	-	-	-	-	-	-	-
	Off-highway truck type, rear dump chassis used as a tractor for towing earth, rock, coal, and ore trailers (gross hp).	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 85	Under 600	1	-			-	-	-	-	-	-
35318 86	600 through 899	2	2			(D)	(D)	(D)	(D)	-	-
35318 92	900 and over	2	2							(D)	(D)
35318 93	Other truck-type tractor chassis, used for log hauling, oilfields, desert, and other uses	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Off-highway trailers and wagons (end, side, and bottom dump) (ton capacity)	3	-								
35318 94	Under 90	2	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 95	90 through 129	1	-								
35318 96	130 and over	1	-								
35318 00	Construction machinery for mounting on tractors, shovel loaders, or other prime movers	31	16	102,021	508,658	14,562	73,184	24,009	117,386	3,354	17,277
	Sidebooms or pipehandlers (lbs. lift capacity)	2	2								
35318 71	Under 30,000	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 72	30,000 to 110,000	1	1								
35318 73	Over 110,000	1	1								
35318 77	Dozers for crawlers and wheel tractors, all sizes	7	5	8,635	86,764	1,967	21,094	1,949	18,734	488	5,364
35318 78	Winches (towing, logging and oilfield types)	9	7	34,099	37,813	7,135	9,595	7,923	7,876	1,661	2,800

See footnotes at end of table.

Table 3B. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1984—Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Second quarter				Third quarter				Fourth quarter			
		Total shipments		Export shipments		Total shipments		Export shipments		Total shipments		Export shipments	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
38318 0D	Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons	4,860	339,205	500	68,565	4,542	342,203	551	76,285	4,357	343,360	557	84,746
	Scrapers bowls	701	39,767	65	5,267	722	43,458	48	3,858	820	43,846	86	5,803
	Conventional scraper bowls (dig, carrying, and hauling) used as part of a self-propelled, nonelevating, 2-wheel type scraper, S.A.E. struck rating (cu. yd.):												
35318 10	Under 18	(D)	(D)	(D)	(D)	450	29,168	15	1,836	446	25,673	21	2,661
35318 11	18 and over												
	Elevating scraper bowls (dig, carrying, and hauling) 2- and 4-wheel type, S.A.E. heaped rating (cu. yd. heaped):												
35318 17	7 and under 12	312	15,028	17	794	219	10,142	21	1,019	296	12,963	58	2,523
35318 18	12 and under 18												
35318 20	18 and under 26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 22	26 and over												
35318 29	All other scraper bowls, towed type, 2- and 4-wheel and other scraper bowls not elsewhere reported	-	-	-	-	-	-	-	-	-	-	-	-
	Motor graders and light maintainers (nehp)	1,281	97,056	168	14,243	1,353	101,563	196	15,945	1,203	93,379	172	14,235
35318 23	Under 75	156	9,204	-	-	138	7,618	(D)	(D)	78	3,999	(D)	(D)
35318 24	75 to 114			(D)	(D)								
35318 25	115 to 144	1,125	87,852	154	12,765	1,215	93,945	180	14,197	1,125	89,380	152	12,190
35318 28	145 to 199			(D)	(D)			(D)	(D)			(D)	(D)
35318 30	200 and over												
	Rollers-self-propelled type, ride on	1,755	61,043	84	4,315	1,362	37,784	112	5,305	1,301	39,147	79	3,633
	Static compaction equipment	832	24,237	26	2,123	611	12,121	28	2,566	635	16,628	21	1,940
	Smooth steel wheel rollers (tons):												
35318 27	Under 3	297	1,097	-	-	257	878			250	889	-	-
35318 32	4 tons (3 through 4-1/2)	177	2,633	(D)	(D)	132	1,886	-	-	156	2,127	(D)	(D)
35318 33	5 tons (4-1/2 through 7-1/2)	27	661	-	-	38	947			25	560	-	-
35318 38	8 and over (above 7-1/2)	92	3,264			39	1,228			20	681		
	Pneumatic tire rollers (lbs. wheel load):												
35318 51	4,000 and under	133	3,910	(D)	(D)	104	3,074	(D)	(D)	107	3,153	-	-
35318 52	Over 4,000 up through 8,000			-	-			-	-				
35318 54	Over 8,000												
	Multiple projection steel wheel rollers:												
35318 43	Embankment	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 45	Landfill												
	Vibratory compaction equipment	923	36,806	58	2,192	751	25,663	84	2,739	666	22,519	58	1,693
	Single drum and double drum, one drum vibrating (tons gross wt.):												
35318 40	Under 6	132	2,441	(D)	(D)	88	1,396	(D)	(D)	81	1,428	(D)	(D)
35318 41	6 and over	363	19,900			280	14,664			226	11,284		
	Double drum, two drum vibrating (tons gross wt.):												
35318 46	Under 8	269	5,379			271	4,537			272	5,742		
35318 47	8 and over	159	9,086	(D)	(D)	112	5,066	(D)	(D)	87	4,065	(D)	(D)
35318 44	Other compactors (except hand held)												
	Rollers, towed type	56	604	-	-	11	118	-	-	21	240	-	-
35318 42	Pneumatic tire including vibratory												
35318 49	Sheeps foot and bar type	56	604	-	-	11	118	-	-	21	240	-	-
35318 56	Vibratory-single drum												
	Off-highway equipment	1,067	140,735	183	44,740	1,094	159,280	195	51,177	1,012	166,748	220	61,075
	Rear dump earth rocks, and ore load on back haulers (ton capacity)	441	72,919	171	41,346	480	93,830	177	46,622	432	100,884	208	59,048
35318 53	30 and under			-	-	-	-	-	-	-	-	-	-
35318 59	Over 30 up to and including 45												
35318 65	Over 45 up to and including 70	441	72,919	171	41,346	480	93,830	177	46,622	432	100,884	208	59,048
35318 69	Over 70 up to and including 100												
35318 70	Over 100												
35318 84	Integral self-powered side and bottom dumps including coal haulers (all sizes)	-	-	-	-	-	-	-	-	-	-	-	-
	Off-highway truck type, rear dump chassis used as a tractor for towing earth, rock, coal, and ore trailers (gross hp)			(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 85	Under 600	(D)	(D)	-	-	-	-	-	-	-	-	-	-
35318 86	600 through 899			-	-							(D)	(D)
35318 92	900 and over			(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
35318 93	Other truck-type tractor chassis, used for log hauling, oilfields, desert, and other uses	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Off-highway trailers and wagons (end, side, and bottom dump) (ton capacity)												
35318 94	Under 90	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 95	90 through 129												
35318 96	130 and over												
35318 00	Construction machinery for mounting on tractors, shovel loaders, or other prime movers	27,290	137,618	3,474	17,482	24,733	127,181	3,631	19,583	25,989	126,473	4,103	18,842
	Sidebooms or pipehandlers (lbs. lift capacity)												
35318 71	Under 30,000	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35318 72	30,000 to 110,000												
35318 73	Over 110,000												
35318 77	Dozers for crawlers and wheel tractors, all sizes	2,704	27,538	465	4,737	1,928	19,413	526	6,002	2,054	21,079	488	6,991
35318 78	Winches (towing, logging and oilfield types)	8,669	10,407	1,602	2,656	7,978	9,620	1,442	1,777	9,529	9,910	2,430	2,362

See footnotes at end of table.

Table 3B. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1984--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Total company count	Export company count	Total shipments		Export shipments		First quarter			
								Total shipments		Export shipments	
				Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Construction machinery for mounting on tractors, shovel loaders, or other prime movers--Continued										
	Backhoes (digging depth)	13	6	18,976	193,031	1,292	13,979	4,617	47,303	277	3,045
35318 79	Under 14 ft	11	5	4,075	28,132	1,292	13,979	946	6,480	277	3,045
35318 80	14 ft. and over	6	5	14,901	164,899			3,671	40,823		
35318 82	Front-end loaders (3/8 cu. yd. and over), nonfarm type	8	3	20,095	97,754	(D)	(D)	5,007	24,511	(D)	(D)
35318 83	Logging arches	2	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 87	Rippers and rooters, heavy rear mounted	5	4			(D)	(D)			(D)	(D)
	Continuous ditching and trenching attachments:										
35318 88	Crawler, vehicle mounted	-	-	-	-	-	-	-	-	-	-
35318 89	Rubber-tired, vehicle mounted	2	1	(D)	(D)	(D)	(D)	(D)	(D)	-	-
35318 90	Fork lifts	7	4	2,625	10,814	(D)	(D)	497	1,997	(D)	(D)
35318 91	All other construction machinery for mounting, including cranes, cable power control units, hydraulic power control units, etc.	12	4	13,794	39,518	(D)	(D)	3,185	7,559	(D)	(D)
35319 00	Other construction machinery and equipment	14	5	7,337	154,149	650	7,561	2,013	41,423	185	2,063
	Self-propelled continuous ditchers and trenchers (integral units only)	9	5	7,084	129,780	650	7,561	1,941	34,421	185	2,063
	Ladder type digging element (lbs. gross wt.)	7	4	(D)	(D)			(D)	(D)		
35319 14	Under 2,000	4	2	3,083	12,993			804	3,562		
35319 15	2,000 to 4,999	5	3	2,867	43,603	(D)	(D)	818	12,113	(D)	(D)
35319 17	5,000 and over	3	1	1,134	73,184			319	18,746		
35319 18	Wheel type digging element	4	1								
	Portable crushing, screening, washing, and combination plants	11	-	253	24,369	-	-	72	7,002	-	-
	Crushing plants (based upon type of crusher first in the processing flow)	7	-	85	16,017	-	-	25	4,875	-	-
35319 41	Gyratory	5	-								
35319 42	Impact	3	-								
35319 43	Jaw	5	-	85	16,017	-	-	25	4,875	-	-
35319 44	Roll	3	-								
35319 45	Screening plants	6	-								
35319 46	Washing and other plants	4	-	168	8,352	-	-	47	2,127	-	-
	Portable crushers incorporated in crushing plants	7	-	88	7,263	-	-	27	2,197	-	-
35319 31	Gyratory	5	-								
35319 32	Impact	3	-								
35319 33	Jaw	5	-	88	7,263	-	-	27	2,197	-	-
35319 34	Roll	3	-								
	Products published in Current Industrial Reports Series M35S, Tractors (Except Garden Tractors):										
35317 30	Wheel tractors, chassis shipped as part of front engine mount integral design tractor shovel loader/backhoe	4	(NA)	14,783	370,587	(NA)	(NA)	4,033	98,260	(NA)	(NA)
35312 00	Tracklaying tractors (nehp)	7	(NA)	8,917	785,382	(NA)	(NA)	1,898	154,467	(NA)	(NA)
35312 11	20 to 44										
35312 13	45 to 59										
35312 15	60 to 89										
35312 19	90 to 124	7	(NA)	8,917	785,382	(NA)	(NA)	1,898	154,467	(NA)	(NA)
35312 21	125 to 159										
35312 22	160 to 259										
35312 24	260 to 344										
35312 27	345 and over										
35317 20	Tracklaying-tractor shovel loaders (nehp)	4	(NA)	3,099	223,891	(NA)	(NA)	826	61,353	(NA)	(NA)
35317 11	20 to 44										
35317 13	45 to 59										
35317 15	60 to 89										
35317 19	90 to 124	(NA)	(NA)	3,099	223,891	(NA)	(NA)	826	61,353	(NA)	(NA)
35317 21	125 to 159										
35317 22	160 to 259										
35317 25	260 and over										

See footnotes at end of table.

Table 3B. QUANTITY AND VALUE OF TOTAL SHIPMENTS AND MANUFACTURES EXPORT SHIPMENTS OF SELECTED TYPES OF CONSTRUCTION MACHINERY: 1984--Continued

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Second quarter				Third quarter				Fourth quarter			
		Total shipments		Export shipments		Total shipments		Export shipments		Total shipments		Export shipments	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Contstruction machinery for mounting on tractors, shovel loaders, or other prime movers--Continued												
	Backhoes (digging depth)	5,028	50,233	387	4,112	4,725	47,739	333	3,556	4,606	47,756	295	3,226
35318 79	Under 14 ft.	1,162	7,572	387	4,112	981	6,697	333	3,556	986	7,383	295	3,266
35318 80	14 ft. and over	3,866	42,661			3,744	41,042			3,620	40,373		
35318 82	Front-end loaders (3/8 cu. yd. and over), nonfarm type	5,265	25,542	(D)	(D)	5,055	24,320	(D)	(D)	4,768	23,381	(D)	(D)
35318 83	Logging arches	(D)	(D)	-	-	(D)	(D)	-	-	(D)	(D)	-	-
35318 87	Rippers and rooters, heavy rear mounted			(D)	(D)			(D)	(D)			(D)	(D)
	Continuous ditching and tranching attachments:												
35318 88	Crawler, vehicle mounted	-	-			-	-	-	-	-	-		
35318 89	Rubber-tired, vehicle mounted	(D)	(D)	-	-	(D)	(D)	(D)	(D)	(D)	(D)	-	-
35318 90	Fork lifts	904	3,536	(D)	(D)	582	2,491	(D)	(D)	642	2,790	(D)	(D)
35318 91	All other construction machinery for mounting, including cranes, cable power control units, hydraulic power control units, etc.	3,742	9,383	(D)	(D)	3,417	11,958	(D)	(D)	3,450	10,626	(D)	(D)
35319 00	Other construction machinery and equipment	2,213	45,886	144	1,672	1,706	36,536	179	1,959	1,407	30,304	142	1,867
	Self-propelled continuous ditchers and trenchers (integral units only)	2,133	38,963	144	1,672	1,650	30,733	179	1,959	1,360	25,663	142	1,867
	Ladder type digging element (lbs. gross wt.)	(D)	(D)			(D)	(D)			(D)	(D)		
35319 14	Under 2,000	939	4,166			760	3,497			580	1,768		
35319 15	2,000 to 4,999	863	13,402	(D)	(D)	659	10,137	(D)	(D)	527	7,951	(D)	(D)
35319 17	5,000 and over												
35319 18	Wheel type digging element	331	21,935			231	17,099			253	15,944		
	Portable crushing, screening, washing, and combination plants	80	6,923	-	-	54	5,803	-	-	47	4,641	-	-
	Crushing plants (based upon type of crusher first in the processing flow)	24	4,180	-	-	21	3,974	-	-	15	2,988	-	-
35319 41	Gyratory												
35319 42	Impact												
35319 43	Jaw	24	4,180	-	-	21	3,974	-	-	15	2,988	-	-
35319 44	Roll												
35319 45	Screening plants												
35319 46	Washing and other plants	56	2,743	-	-	33	1,829	-	-	32	1,653	-	-
	Portable crushers incorporated in crushing plants	24	1,935	-	-	22	1,706	-	-	15	1,425	-	-
35319 31	Gyratory												
35319 32	Impact												
35319 33	Jaw	24	1,935	-	-	22	1706	-	-	15	1,425	-	-
35319 34	Roll												
	Products published in Current Industrial Reports Series, M35S, Tractors (Except Garden Tractors):												
35317 30	Wheel tractors, chassis shipped as part of front engine mount integral design tractor shovel loader/backhoe	4,139	102,884	(NA)	(NA)	2,968	74,997	(NA)	(NA)	3,643	94,446	(NA)	(NA)
35312 00	Tracklaying tractors (nehp)	2,924	244,930	(NA)	(NA)	2,007	182,564	(NA)	(NA)	2,088	203,421	(NA)	(NA)
35312 11	20 to 44												
35312 13	45 to 59												
35312 15	60 to 89												
35312 19	90 to 124												
35312 21	125 to 159	2,924	244,930	(NA)	(NA)	2,007	182,564	(NA)	(NA)	2,088	203,421	(NA)	(NA)
35312 22	160 to 259												
35312 24	260 to 344												
35312 27	345 and over												
35317 20	Tracklaying-tractor shovel loaders (nehp)	888	67,603	(NA)	(NA)	718	50,511	(NA)	(NA)	667	44,424	(NA)	(NA)
35317 11	20 to 44												
35317 13	45 to 59												
35317 15	60 to 89												
35317 19	90 to 124	888	67,603	(NA)	(NA)	718	50,511	(NA)	(NA)	667	44,424	(NA)	(NA)
35317 21	124 to 159												
35317 22	160 to 259												
35317 25	260 and over												

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. nehp = Net engine horsepower. tph = Tons per hour.
(X) Not applicable.

Table 4. COMPARISON OF VALUES OF SHIPMENTS OF CONSTRUCTION MACHINERY, AS REPORTED IN THE ANNUAL SURVEY MA35D, THE QUARTERLY SURVEY MQ35D, THE 1984 ANNUAL SURVEY OF MANUFACTURES, AND THE 1982 CENSUS OF MANUFACTURES

(Value in millions of dollars)

Product code	Product description	1984			1982	
			Annual Survey of Manufactures			
		MQ35D or MA35D	Value	Standard error of estimates[1]	MQ35D or MA35D	Census of Manufactures
3531	Construction machinery	(X)	11,822.7	1	(X)	10,648.3
35311	Contractors' off-highway wheel tractors	421.9	421.9	6	264.7	266.8
35312	Tracklaying tractors[2]	785.4	768.0	1	777.3	804.8
35313	Parts and attachments for tracklaying type tractors, contractor' off-highway wheel tractors, and tractor shovel loaders	(NA)	2,006.2	1	(NA)	1,721.0
35314	Power cranes, shovels, draglines, and parts	1,479.9	1,530.7	3	1,947.8	1,940.3
	Excavators	499.6	(NA)	(NA)	331.4	(NA)
	Cranes	312.8	(NA)	(NA)	576.2	(NA)
	Draglines	180.3	(NA)	(NA)	354.7	(NA)
	Other cranes and parts and attachments	487.1	(NA)	(NA)	685.5	(NA)
35316	Mixers, pavers, and related equipments	485.5	450.6	4	301.7	307.0
	Concrete equipment	(D)	(NA)	(NA)	(D)	(NA)
	Bituminous equipment	(D)	(NA)	(NA)	(D)	(NA)
	Other related equipment	(D)	(NA)	(NA)	(D)	(NA)
35317	Tractor shovel loaders	1,791.9	1,794.5	2	1,243.9	1,248.4
	Wheel loaders	1,197.4	(NA)	(NA)	907.0	(NA)
	Tracklaying shovel loaders[2]	223.9	(NA)	(NA)	102.5	(NA)
	Wheel tractor chassis, shipped as part of front-engine mount, integral design tractor shovel loader backhoe[2]	370.6	(NA)	(NA)	234.4	(NA)
	Not specified by kind	(X)	(NA)	(NA)	(X)	(NA)
35318	Scrapers, graders, compactors, off-highway trucks and trailers, and mountings for prime movers	1,799.4	1,892.3	2	1,384.7	1,365.5
	Scrapers	167.1	(NA)	(NA)	91.2	(NA)
	Graders	377.4	(NA)	(NA)	323.5	(NA)
	Compaction equipment	179.4	(NA)	(NA)	149.7	(NA)
	Off-highway trucks and trailers	566.8	(NA)	(NA)	440.7	(NA)
	Prime mover mountings	508.7	(NA)	(NA)	379.6	(NA)
35319	Other construction machinery and equipment including other construction machinery parts	(4)	2,604.3	3	(4)	2,677.9
	Self-propelled ditchers and trenchers	129.8	(NA)	(NA)	82.3	(NA)
	Truck and trailer mounted waterwell and blasthole drills	(3)	(NA)	(NA)	(3)	(NA)
	Portable crushing, screening, washing, and combination plants	24.3	(NA)	(NA)	48.9	(NA)
35310 00	Construction machinery n.s.k., typically for establishments with 5 employees or more	(4)	354.1	4	(4)	316.6
35310 02	Construction machinery n.s.k., typically for establishments with less than 5 employees					

Note: In the 1982 Census of Manufactures, shipments for small companies, typically those with fewer than 5 employees, were estimated from administrative records data rather than collected on census questionnaires. These shipments are included in product code 35310 02. Products not adequately identified by detail product were coded in some cases to industry 3531 (four-digits) followed "000."

(D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. N.s.k. Not specified by kind. (X) Not applicable.

[1]The annual survey of manufactures percentage standard errors shown are the approximate relative standard errors of the estimates of level. A more detailed description of the standard error of estimate is given in the introduction of the annual survey of manufactures, Value of Product Shipments, M84(AS)-2, under "Qualifications of the Data."

[2]Source: Current Industrial Reports Series, M35S, Tractors (Except Garden Tractors).

[3]Collected on the MA35F, Mining Machinery.

[4]Available only from the annual survey of manufactures and census of manufactures. Most of these data are derived from administrative records. See note above.

Table 5A. COMPARISON OF DOMESTIC AND EXPORT SHIPMENTS OF CONSTRUCTION MACHINERY: 1985

(Quantity in units; value in thousands of dollars)

Product description	Manufacturers' shipments		Series	Export shipments		Percent exports to domestic shipments		
	Quantity	Value		Quantity	Value as reported	Estimated producers' value[1]	Quantity	Value
Contractors' off-highway type wheel tractors, under 300 nehp	5,375	370,926	MQ35D	366	35,115	(X)	7	9
			EM546	311	47,607	37,995	6	10
Contractors' off-highway type wheel tractors, 300 nehp and over								
Wheeled log skidders	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	334	19,005	15,168	(NA)	(NA)
Wheeled-type tractor-shovel loaders:								
Wheel type, rear engine mount, integral design:								
4-wheel drive (cu. yd. bucket capacity):								
Under 1	478	11,826	MQ35D					
1 and under 1-1/2	352	15,329	EM 546					
1-1/2 and under 2	673	30,722						
2 and under 2-1/2	1,527	94,727	MQ35D					
			EM 546					
2-1/2 and under 3-1/2	2,970	234,315	MQ35D					
			EM 546	1,639	258,937	(X)	19	28
3-1/2 and under 5	970	121,261	MQ35D	5,058	260,320	207,761	58	22
			EM 546					
5 and under 6-1/2	1,469	278,233	MQ35D					
6-1/2 and under 10			EM 546					
10 to 15	282	139,402	MQ35D					
15 and over			EM 546					
2-wheel drive, all types	-	-	MQ35D	-	-	(X)	(NA)	(NA)
			EM 546	251	6,895	5,502	(NA)	(NA)
Dozers for mounting on tractors	6,960	66,608	MQ35D	1,727	21,402	(X)	25	32
			EM 546	1,700	10,256	8,185	24	12
Backhoes for mounting on tractors	22,831	230,217	MQ35D	1,359	13,930	(X)	6	6
			EM 546	546	2,605	2,079	2	1
Front-end loaders for mounting on tractors	23,570	94,926	MQ35D	1,404	6,267	(X)	6	7
			EM 546	20,562	32,980	26,321	87	28
Rippers and rooters for mounting on tractors	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	410	2,494	1,990	(NA)	(NA)
Scrapers	3,523	191,937	MQ35D	317	19,399	(X)	9	10
			EM 546	159	25,743	20,545	5	11
Motor graders and light maintainers	4,936	400,323	MQ35D	876	79,347	(X)	18	20
			EM 546	1,038	83,900	66,961	21	17
Rollers, nonvibratory, self-propelled	2,924	87,552	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	42	1,869	1,492	1	2
Rollers, vibratory, self-propelled	5,094	126,352	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	360	22,088	17,628	7	14
Excavators, crawler-mounted, cable operated	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	81	60,522	48,303	(NA)	(NA)
Excavators, crawler-mounted, hydraulic operated	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	405	61,062	48,734	(NA)	(NA)
Cranes, crawler-mounted, cable operated	101	39,567	MQ35D	29	12,483	(X)	29	32
			EM 546	65	34,098	27,214	64	69
Cranes, truck-mounted, hydraulic operated	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	176	17,963	14,336	(NA)	(NA)
Cranes, wheel and crawler mounted, hydraulic operated	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	273	37,962	30,297	(NA)	(NA)
Cranes, rubber-mounted, cable operated	88	24,485	MQ35D	18	6,597	(X)	20	27
			EM 546	164	16,083	12,836	(S)	52
Walking draglines and walking cranes	24	138,729	MQ35D	8	85,684	(X)	33	62
			EM 546	2	2,827	2,256	8	2
Off-highway trucks	6,964	981,335	MQ35D	1,001	284,686	(X)	14	29
Off-highway trailers and wagons			EM 546	1,046	197,598	157,703	15	16
Ditchers and trenchers, self-propelled:								
Ladder type	7,577	118,037	MQ35D	(D)	(D)	(X)	(NA)	(NA)
Other than ladder type			EM 546	973	18,939	15,115	13	13
Crushing, screening, and washing plants, portable	704	51,675	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	141	7,059	5,634	20	11
Concrete mixers and batchers	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	1,074	7,220	5,762	(NA)	(NA)
Concrete pavers, finishers, and spreaders	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	(X)	5,635	4,497	(NA)	(NA)
Bituminous pavers, finishers, spreaders, mixers, and batchers	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	85	11,850	9,457	(NA)	(NA)

See footnotes at end of table 5B.

Table 5B. COMPARISON OF DOMESTIC AND EXPORT SHIPMENTS OF CONSTRUCTION MACHINERY: 1984

(Quantity in units; value in thousands of dollars)

Product description	Manufacturers' shipments		Series	Export shipments		Percent exports to domestic shipments		
	Quantity	Value		Quantity	Value as reported	Estimated producers' value[1]	Quantity	Value
Contractors' off-highway type wheel tractors, under 300 nehp	3,265	264,568	MQ35D	337	35,293	(X)	10	13
			EM546	552	55,847	48,402	17	18
Contractors' off-highway type wheel tractors, 300 nehp and over								
Wheeled log skidders	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	262	16,074	13,931	(NA)	(NA)
Wheeled-type tractor-shovel loaders:								
Wheel type, rear engine mount, integral design:								
4-wheel drive (cu. yd. bucket capacity):								
Under 1	584	14,947	MQ35D					
1 and under 1-1/2	700	36,450	EM 546					
1-1/2 and under 2	1,237	62,791						
2 and under 2-1/2	2,789	170,846	MQ35D					
			EM 546					
2-1/2 and under 3-1/2	2,336	208,418	MQ35D					
			EM 546	1,542	193,766	(X)	15	20
				4,783	243,915	211,401	46	21
3-1/2 and under 5	1,226	147,406	MQ35D					
			EM 546					
5 and under 6-1/2	1,414	252,127	MQ35D					
6-1/2 and under 10			EM 546					
10 to 15	204	93,494	MQ35D					
15 and over			EM 546					
2-wheel drive, all types	-	-	MQ35D	-	-	(X)	(NA)	(NA)
			EM 546	126	4,255	3,688	(NA)	(NA)
Dozers for mounting on tractors	8,635	86,764	MQ35D	1,967	21,094	(X)	23	24
			EM 546	2,240	18,658	16,171	26	19
Backhoes for mounting on tractors	18,976	193,031	MQ35D	1,292	13,979	(X)	7	7
			EM 546	491	1,759	1,525	3	1
Front-end loaders for mounting on tractors	20,095	97,754	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	17,067	29,020	25,152	85	30
Rippers and rooters for mounting on tractors	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	477	4,725	4,095	(NA)	(NA)
Scrapers	2,740	167,142	MQ35D	309	21,782	(X)	11	13
			EM 546	392	30,475	26,413	14	16
Motor graders and light maintainers	4,816	377,370	MQ35D	701	58,876	(X)	15	16
			EM 546	1,238	33,353	28,907	26	8
Rollers, nonvibratory, self-propelled	2,738	72,379	MQ35D	113	9,612	(X)	4	13
			EM 546	67	1,277	1,107	2	2
Rollers, vibratory, self-propelled	3,012	107,014	MQ35D	340	11,949	(X)	11	11
			EM 546	417	20,274	17,572	14	16
Excavators, crawler-mounted, cable operated	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	90	34,561	29,954	(NA)	(NA)
Excavators, crawler-mounted, hydraulic operated	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	366	53,761	46,595	(NA)	(NA)
Cranes, crawler-mounted, cable operated	167	62,658	MQ35D	35	21,193	(X)	21	34
			EM 546	58	36,129	31,313	35	50
Cranes, truck-mounted, hydraulic operated	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	244	27,136	23,519	(NA)	(NA)
Cranes, wheel and crawler mounted, hydraulic operated	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	311	37,044	32,106	(NA)	(NA)
Cranes, rubber-mounted, cable operated	87	26,786	MQ35D	23	9,920	(X)	26	37
			EM 546	182	24,225	20,996	(S)	78
Walking draglines and walking cranes	30	180,345	MQ35D	11	124,410	(X)	37	69
			EM 546	1	17,611	15,263	3	8
Off-highway trucks	4,112	565,415	MQ35D	671	181,546	(X)	16	32
Off-highway trailers and wagons			EM 546	930	172,633	149,621	23	26
Ditchers and trenchers, self-propelled:								
Ladder type	7,084	129,780	MQ35D	650	7,561	(X)	9	6
Other than ladder type			EM 546	962	12,644	10,959	14	8
Crushing, screening, and washing plants, portable	253	24,369	MQ35D	-	-	(X)	(NA)	(NA)
			EM 546	270	12,106	10,492	(S)	43
Concrete mixers and batchers	14,376	115,338	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	511	7,079	6,135	4	5
Concrete pavers, finishers, and spreaders	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	(X)	12,643	10,958	(NA)	(NA)
Bituminous pavers, finishers, spreaders, mixers, and batchers	(D)	(D)	MQ35D	(D)	(D)	(X)	(NA)	(NA)
			EM 546	67	14,453	12,526	(NA)	(NA)

Note: Data for export shipments as collected on this report will differ from data collected for the EM 546 report. The Current Industrial Reports collect export data only from manufacturers, omitting exports by distributors, which are included in the FT 410 publication. For some products, the EM 546 export data included used machines; whereas, the MQ35D or MA35D data are limited to new machines. Data on imports of construction machinery are not available on a comparable basis with the domestic output and exports shown above and are therefore excluded from this report. See table 6 for a comparison of SIC-based product codes, Schedule B export numbers, and TSUSA import numbers.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. nehp = Net engine horsepower. (S) Withheld because data did not meet publication standards of the Bureau of the Census. (X) Not applicable.

[1] These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors are based on data for 1983 which are published in Origin of Exports of Manufactured Products, M83(AS)-5, appendix B. The adjustment factor applicable to this report is 0.7981.

Table 6. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION CODES AND SCHEDULE B EXPORT NUMBERS

Product code	Product description	Export number[1]	Product description
	Wheel tractors, contractors' off-highway type, 2- and 4-wheel (for use as towing unit for all types of scrapers, trailers, wagons) (maximum engine hp):		Tractors, new or used (except tractors in item 692.40 and except automobile truck tractors) whether or not equipped with power take-offs, winches, or pulleys, whether or not suitable for agricultrual use, and parts thereof, n.s.p.f.:
35311 21	Under 199		
35311 23	200 to 299		
	Rubber-tired dozers (maximum engine hp):		Wheel type, new:
35311 33	125 to 299		
35311 35	300 and over		Contractors' off-highway tractors with a maximum net engine horsepower rating of:
		692.3230	Under 300
	Wheel tractors, contractors' off-highway type, 2- and 4-wheel (for use as towing unit for all types of scrapers, trailers, wagons) (maximum engine hp):	692.3240	300, but less than 500
		692.3250	500 and over
35311 25	300 to 399		
35311 27	400 to 499		
35311 29	500 and over		
35311 37	Wheeled log skidders, self-propelled	692.3220	Log skidders
	Tractor shovel loaders:		Mechanical shovels, coal-cutters, excavators, scrapers dozers, and other excavating, leveling, boring, and extracting machinery, all the foregoing, whether stationary of mobile, for earth, minerals, or ores; pile drivers; snow ploys, not self-propelled; all the foregoing and parts thereof, n.s.p.f.:
	Wheel type, rear engine mount, integral design:		
	2-wheel drive (cu. yd. bucket capacity):		Front-end loaders, wheel type:
35317 11	Under 1		
35317 12	1 and over		Integral tractor shovel loaders, rear engine mounted, new:
	4-wheel drive (cu. yd. bucket capacity):	664.0214	2-wheel drive
35317 03	Under 1		
35317 04	1 and under 1-1/2		4-wheel drive with a cu. yd. bucket capacity of:
35317 05	1-1/2 and under 2	664.0216	Under 1
35317 06	2 and under 2-1/2	664.0217	At least 1, but under 1-1/2
35317 07	2-1/2 and under 3-1/2	664.0218	At least 1-1/2, but under 2
35317 08	3-1/2 and under 5	664.0219	At least 2, but under 2-1/2
35317 15	5 and under 7-1/2	664.0220	At least 2-1/2, but under 3-1/2
35317 16	7-1/2 and under 10	664.0221	At least 3-1/2, but under 5
35317 17	10 and over	664.0225	At least 5, but under 6-1/2
		664.0227	At least 6-1/2, but under 10
	Motor graders and light maintainers (nehp):	664.0230	At least 10, but under 15
35318 23	Under 75	664.0233	15 and over
35318 24	75 to 114		
35318 25	115 to 144		
35318 28	145 to 199		
35318 30	200 and over		
	Rollers:		
	Self-propelled type, ride on:		
	Steel wheeled, static (nonvibratory):		
35318 31	3-wheeled and segmented		
	Tandem, 2- and 3-axle (tons)		
35318 34	Under 3		
35318 35	4 (3 through 4-1/2)		
35318 36	5 (above 4-1/2 through 7-1/2)		
35318 37	8 and over (above 7-1/2)		Other machines:
	Pneumatic tire (lb. wheel load):		New:
35318 51	4,000 and under		Road rollers:
35318 52	Over 5,000 through 8,000		Self-propelled:
35318 54	Over 8,000	664.0541	Nonvibratory
	Sheepsfoot, static	664.0539	Vibratory
	Vibratory compactors, self-propelled:		
	Single drum (one drum vibrating) (ton gross wt):		
35318 40	Under 6		
35318 41	6 and over		
	Double drum (two drums vibrating) (tons gross wt.):		
35318 46	Under 8		
35318 47	8 and over		
	Scrapers:		
	Conventional scraper bowls only (dig, carrying, and hauling) normally used as part of a self-propelled, nonelevating		Scrapers, dig-carry haul (cu. yds.):
	2-wheel type scraper, S.A.E. struck rating (cu. yd. struck):	664.0543	18 and under
35318 12	7 and under 12	664.0544	Over 18
35318 13	12 and under 18		
35318 14	18 and under 26		
35318 15	26 and under 35		
35318 16	35 and over		
	Elevating scraper bowls (dig, carrying, and hauling) 2- and 4-wheel type, S.A.E. heaped rating (cu. yd. heaped):		
35318 17	7 and under 12		
35318 18	12 and under 18		
35318 19	18 and under 30		
35318 21	30 and over		
35318 29	All other scraper bowls (towed type), 2- and 4-wheel and other scraper bowls not elsewhere reported		

See footnotes at end of table.

Table 6. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION CODES AND SCHEDULE B EXPORT NUMBERS--Continued

Product code	Product description	Export number[1]	Product description
	Self-propelled continuous ditchers and trenchers (integral units only):		
	Ladder type digging element (lbs. gross wt.):		
35319 14	Under 2,000	664.0545	Ditchers and trenchers, self-propelled:
35319 17	2,000 to 4,999		Ladder type
35319 17	5,000 and over		
35319 18	Wheel type digging element	664.0546	Other
	Construction machinery for mounting		
	Dozers, for crawler and wheel tractors (measured to outside of corner bits):		Parts and attachments of the foregoing (including equipment for mounting on tractors, shovel loaders, excavators or other prime movers):
35318 74	6'-0" (1820mm) and under 10'-1" (3070mm)		
35318 75	10'-1" (3070mm) and under 14'-1" (4300mm)		
35318 76	14'-1" (4300mm) and over	664.0572	Dozer attachments
	Backhoes (include all backhoes whether shipped for mounting separately, or already mounted on an integral unit):	664.0573	Backhoe attachments
35318 79	Under 14 ft. digging depth		
35318 80	14 ft. digging depth and over	664.0574	Shovel attachments
35318 82	Front end loaders, 3/8 cubic yard and over, including shovel loaders	664.0576	Front end loader attachments
35318 87	Rippers and rooters, heavy rear mounted	664.0577	Rippers and rooters
	Off-highway vehicles:		Motor vehicles (except motorcycles) for the transport of persons or articles:
	Rear dump earth, rock, and ore load on back haulers (ton capacity):		Automobile trucks, except truck tractors:
35318 55	Under 20		Other fuels (including diesel) new:
35318 57	20 through 30		Over 44,000 pounds g.v.w.:
35318 59	Over 30 through 45		Nonmilitary:
35318 65	Over 45 through 70		Off-highway
35318 69	Over 70 through 100	692.0556	Under 30 ton capacity
35318 70	Over 100	692.0558	31 to 45 ton capacity
35318 84	Integral self-power side and bottom dumps including coal haulers (all sizes)	692.0562	46 to 70 ton capacity
	Off-highway truck type, rear dump chassis used as a tractor for towing earth, rock, coal, and ore trailers (gross hp):	692.0564	71 to 100 ton capacity
		692.0566	Over 100 ton capacity
		692.0568	Other, including side and bottom dump
35318 85	Under 600		
35318 86	600 through 899		
35318 92	900 and over		
35318 93	Other truch type tractor chassis, used for log hauling oilfields, desert, and other uses		
	Off-highway trailers and wagons (end, side, and bottom dump) (ton capacity):		Vehicles (including trailers), not self-propelled, not specifically provided for, and parts thereof, n.s.p.f.:
35318 94	Under 90		
35318 95	90 through 129	692.6040	Off-highway trailers and wagons (except farm type)
35319 96	130 and over		
	Portable crushing plants, screening plants, washing plants, and combination plants:		Machinery for sorting, screening, separating, washing, crushing, grinding, or mixing earth, stone, ores, or other mineral substances in solid (including powder or paste form; machinery for agglomerating, molding, or shpaing solid mineral fuels, ceramic paste, unhardened cements, plastering materials, or other mineral products in powder or paste form; machines for forming foundry molds or sand, all the oregoing, and parts thereof, n.s.p.f.);
	Crushing plants:		
	Gyratory		
35319 41	Impact		
35319 42	Roll		
35319 44	Screening plants		
35319 45	Washing and other		
35319 46			Machinery for sorting, screening, separating, washing, crushing, grinding, or mixing earth, stone, ore, or other mineral substances in solid (including powder or paste) form, and parts thereof:
		678.2013	Crushing, grinding, pulverizing, screening, and washing machines for minerals, portable
	Mixers, pavers, and related equipment:		Machinery for sorting, etc.
	Concrete:		
	Mixers:		
35316 12	Portable, under 3-1/2 cubic yard capacity (except plaster and mortar), hand or power operated		
	Portable, 3-1/2 cubic yard capacity and over (except plaster and mortar):		
35316 21	Truck-mixer or agitator		
35316 25	Other than truck-mixer		
35316 31	Plaster and mortar, all sizes		
35316 37	Concrete batching plants, bin and batch (for concrete aggregate only and bulk cement)	678.2011	Concrete mixers and batchers
	Bituminous:	678.2012	Bituminous mixers and batchers
35316 12	Distributors		
	Pavers, self-propelled (lb. gross wt.) (basic unit):		
35316 13	Under 8,500		
35316 14	8,500 through 19,999		
35316 15	20,000 through 34,999		
35316 16	35,000 and over		
	Asphalt plants:		
	Central mixing plants (batch type and continuous type) (tph = tons per hour):		Machines not specially provided for, and parts thereof:
35316 45	Less than 2,000 lb. batch (less than 60 tph)	678.5073	Concrete and bituminous pavers, finishers, and spreaders, and Bituminous pavers, finishers, and spreaders
35316 46	2,000 to 3,500 (60 to 119 tph)		
35316 47	4,000 to 5,500 (120 to 179 tph)		
35316 48	5,000 to 7,500 (180 to 239 tph)		
35316 49	8,000 and over (240 tph and over)		

See footnotes at end of table.

Table 6. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION CODES AND SCHEDULE B EXPORT NUMBERS--Continued

Product code	Product description	Export number[1]	Product description
	Mixers, pavers, and related equipment--Continued		
35316 39	Other bituminous equipment, not specified above including mixers, heating kettles, heaters, circulators, travel-mix-type, asphalt boxes, and spreader boxes		
	Stabilization mixing equipment:		
35316 54	Central plants		
35316 55	Mix-in-place		
	Concrete:		
35316 32	Pavers, finishers, and spreaders	678.5071	Concrete pavers, finishers, and spreaders
35316 33			
35316 35	Power cranes, draglines, and shovels (excavators), including		
35316 36	surface mining equipment, but not including equipment for		
35316 42	mounting on tractors:		Mechanical shovels, coal-cutters, excavators, scrapers, bull-dozers, and other excavating, leveling, boring, and extracting machinery, all the foregoing whether stationary or mobile, for earth, minerals, or ores; pile drivers; snow plows, not self-propelled; all the foregoing and parts thereof, n.e.s.p.f.:
	Excavators:		
	Cable operated:		
	Crawler mounted:		
	Rated shovel capacity (cu. yds.):		
35314 54	3/4 and under		
35314 55	Over 3/4 through 1-1/4		
35314 56	Over 1-1/4 through 2		Backhoes, shovels, clamshells, and draglines with a 360° revolving structure:
35314 57	Over 2 through 3-1/2		
35314 58	Over 3-1/2 through 5		
35314 59	Over 5 through 10		New:
35314 60	Over 10 through 15		Other:
35314 61	Over 15		Crawler mounted:
	Hydraulic operated:	664.0534	Cable operated
	Crawler mounted:	664.0533	Hydraulic
	Rated size (working weight including bucket) (lbs.):		
35314 11	Up to and including 40,000		
35314 13	Over 50,000 through 55,000		
35314 15	Over 55,000 through 70,000		
35314 17	Over 70,000 through 85,000		
35314 19	Over 85,000 through 100,000		
35314 20	Over 100,000 through 130,000		
35314 22	Over 130,000		
	Walking draglines:		
	Rated bucket capacity (cu. yds.):		
35314 96	Up to and including 40	664.0532	Walking draglines
35314 97	Over 40 through 60		
35314 98	Over 60		
	Cranes:		
	Cable operated:		
	Crawler mounted:		Motor vehicles specially constructed and equipped to perform special services or functions, such as, but not limited to, fire eingines, mobile cranes, wreckers, concrete mixers, and mobile clinics:
	Maximum working load (tons):		
35314 66	Up to and including 15		Mobile cranes:
35314 67	Over 15 through 30		Cable operated:
35314 68	Over 30 through 45		
35314 69	Over 45 through 60	692.1620	Crawler mounted
35314 70	Over 60 through 75		
35314 71	Over 75 through 90		
35314 72	Over 90 through 120		
35314 25	Over 120 through 150		
35314 26	Over 150		
	Truck or wheel (rubber) mounted:		
	Maximum working load (tons):		
35314 73	Up to and including 30		
35314 74	Over 30 through 45		
35314 75	Over 45 through 60		
35314 76	Over 60 through 75		
35314 77	Over 75 through 90		
35314 78	Over 90 through 120	692.1610	Truck mounted
35314 80	Over 150		
	Hydraulic operated:	692.1630	Other (including wheel mounted)
	Truck mounted (rubber):		Hydraulic operated:
	Maximum working load (tons):	692.1640	Truck mounted
35314 31	Up to and including 20		
35314 32	Over 20 through 30		
35314 34	Over 30 through 55		
35314 34	Over 55		
	Self-propelled (rubber):		
	maximum working load (tons):		
35314 36	Up to and including 8		
35314 37	Over 8 through 12-1/2	692.1650	Other (including wheel mounted and crawler mounted)
35314 38	Over 12-1/2 through 15		
35314 39	Over 15 through 18		
35314 40	Over 18 through 25		
35314 41	Over 25		

Nehp = Net engine horsepower. N.s.p.f. Not specifically provided for. tph = Tons per hour.

[1] Source: 1985 edition, Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

DESCRIPTION OF SURVEY

Scope of Survey. The surveys on which this report is based cover all firms engaged in the manufacture of selected types of construction machinery and surface mining equipment.

Survey Methodology. The statistics presented in this report are of two types: (1) annual data on excavators, cranes, draglines, and parts and attachments, collected on Bureau of the Census annual Form MA35D, Construction Machinery, and (2) a summary of the statistics collected on Bureau of the Census quarterly Form MQ35D, Construction Machinery. The mailing panel for the annual survey includes all known producers of excavators, cranes, draglines, and parts and attachments, approximately 60 companies. The panel for the quarterly survey includes all known producers of contractors' off-highway wheel tractors; mixers, pavers, and related equipment; wheel tractor shovel loaders; scrapers, graders, rollers, off-highway equipment, and mountings for tractors; and ditchers and trenchers, blast hole drills, and portable crushing plants, about 236 companies.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on yearly movements shown by reporting firms. Imputation generally is limited to a maximum of 15 percent for any one data cell. Figures with imputation rates greater than 15 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 15 percent should be used with caution.

Revisions to Previous Period Data. Statistics for previous years may be revised as the result of corrected data from respondents, late reports for which imputations were made as described above, or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Revisions include changes to prior period data resulting from reconciliation of the results of these surveys with the 1984 Annual Survey of Manufactures to correct differences in reported data between the two series and to identify and verify new establishments included in the scope of this survey. Table 4 presents a comparison of data from the two series by census product class following the reconciliation.

Adjustment for Price Change. All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity and Value of Shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Export Shipments. Shipments from United States manufacturing plants to foreign countries, including Canada and U.S. territories and possessions. Includes both direct shipments to foreign countries and shipments to exporters or other dealers which are known to be for export.

Wheel Tractors, Contractors' Off-Highway Type. Wheel tractors designed primarily to be used as towing units for scrapers, trailers, wagons, and similar types of towed equipment for use on natural terrain. These units may be 2- or 4-wheel type.

Tractor Shovel Loaders—Wheel Type, Front-End Load—(Integral Design, Rear Engine Mount). Complete machines originally conceived and designed as heavy duty, wheel type, front-end loaders, and not as wheel tractors, to receive shovel loading attachments. They are classified according to the maximum size of bucket that the machine was designed to use. The bucket capacity for establishing these sizes is based on the S.A.E. nominal heaped rating with 3,000 pounds per cubic yard material.

Off-Highway Vehicles. Vehicles designed for operation off public highways to transport material or equipment on mining, construction, logging, petroleum development, and similar project sites.

Excavator. A commercial earth-moving machine equipped with a bucket-mounted front-end attachment mounted on a 360 degree revolving superstructure.

Crane. A machine having a front-end lifting attachment and operating machinery mounted on a revolving superstructure.

Cable Operated. A machine with front-end attachment functions performed by wire rope.

Hydraulic Excavator. A machine with front-end attachments functions performed hydraulically.

Crawler Mounted. A machine with two parallel continuous crawlers or tread belts.

Truck Mounted (Rubber). A machine which generally has two engines, one to propel the carrier and another to power the work functions. A truck or carrier mounted machine will have two operator stations and is designed for on- and off-highway travel.

Self-Propelled (Rubber). A machine which has only one engine and one operator station. The engine may be mounted in either the upper or lower works.

Attachments. Includes only attachments for cranes, excavators, or draglines sold separately, not shipped with the original machine, in item codes 4281 to 4292. Include the value of any attachments sold with the machine, with the value, f.o.b. plant, of that machine.

Parts. Includes the value of all parts for excavators, cranes, and draglines sold for replacement or repair or to plants producing construction machinery and equipment.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- *Domestic Output.* Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

- *Exports.* Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

  Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

- *Imports.* Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Import and Export Transactions. Detailed commodity information is not included for individual export shipments valued at not more than $1,000. Generally, detailed commodity information is not included for individual import shipments valued at not more than $1,000. For textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products detailed commodity information is not included for individual import shipments valued at not more than $250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities. With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage. Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

HISTORICAL NOTE

Data on construction machinery have been collected by the Bureau of the Census since 1942. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library. A list of these libraries may be obtained from the Bureau of the Census regional offices:

Office	Telephone
Atlanta, Georgia	(404) 881-2271
Boston, Massachusetts	(617) 223-2327
Charlotte, North Carolina	(704) 371-6142
Chicago, Illinois	(312) 353-6251
Dallas, Texas	(214) 767-0621
Denver, Colorado	(303) 234-3924
Detroit, Michigan	(313) 226-7742
Kansas City, Kansas	(816) 374-4601
Los Angeles, California	(213) 209-6616
New York, New York	(212) 264-3860
Philadelphia, Pennsylvania	(215) 597-4920
Seattle, Washington	(206) 442-7828

RELATED REPORTS

Data collected quarterly (see "Survey Methodology" above) are published in Current Industrial Report series MQ35D. The Bureau of the Census also publishes the following related reports:

Series	Frequency	Title
Current Industrial Reports		
M37L	Monthly	*Truck Trailers*
MA35A	Annually	*Farm Machinery and Lawn and Garden Equipment*
MA35F	Annually	*Mining Machinery*
MA35L	Annually	*Internal Combustion Engines*
MA35P	Annually	*Pumps and Compressors*
Other Industry Reports		
M3-1	Monthly	*Manufacturers' Shipments, Inventories, and Orders*
(AS)	Annually	Annual Survey of Manufactures (ASM)
(MC)	Quinquennially	Census of Manufactures
Foreign Trade Reports		
FT410	Monthly	*U.S. Exports—Schedule E—Commodity by Country*
FT135	Monthly	*U.S. General Imports—Schedule A—Commodity by Country*

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report MA35D	Donald Burgess	(301) 763-7492
Foreign Trade publications	Joyce Ware	(301) 763-5140
Census/ASM	Ted McGrath	(301) 763-5752
To order a Census Bureau publication	Customer Services (DUSD)	(301) 763-4100
International Trade Administration	John Lien	(202) 377-0679

INDUSTRY FINANCING

The surveys on which this report is based are funded, in part, by the Construction Industry Manufacturers' Association.

ACKNOWLEDGMENTS

This report was prepared in the Industry Division, Bureau of the Census, under the direction of Malcolm E. Bernhardt, Chief, Current Durables Branch, and Kenneth E. McBeth, Chief, Machinery and Equipment Section. Donald Burgess was directly responsible for the review of the data and preparation of the report. Gaylord Worden, Chief of the Division, and Thomas Mesenbourg, Assistant Chief for Current Industrial Reports, provided overall direction and coordination to this project.

U.S. Department of Commerce
BUREAU OF THE CENSUS
Washington, D.C. 20233

Official Business
Penalty for Private Use, $300

FIRST-CLASS MAIL
POSTAGE & FEES PAID
CENSUS
PERMIT No. G–58